

Chapter 17 is all about Frames, Frame Components and Wide Tire Kits. This is the Chapter where you start from scratch when you want to build your complete Custom Motorcycle or when you want to convert the rear section of your stock Softail to accept a 200/230/240/250 or even "The Monster" 280, 300 or 330 wide rear tire. This chapter also features the exclusive Ton Pels Signature frames such as the North Sea Chopper and the latest RSD North Sea Cruiser and Coastline Cruiser frames. It also features the Softail models Wide Tail, Super Ass and Sportail, as well as our wide range of famous and attractively priced Wide Tire swing arm kits. New and exclusively distributed in Europe by Zodiac is an extensive range of frames from Kraft/Tech.



Single sided swing arm for Softail



***Kraft/Tech High Neck Curved Dagger Frame for
Panhead, Shovelhead and Evolution Big Twin engine***



Kraft/Tech Hardtail frame for Evolution Sportster

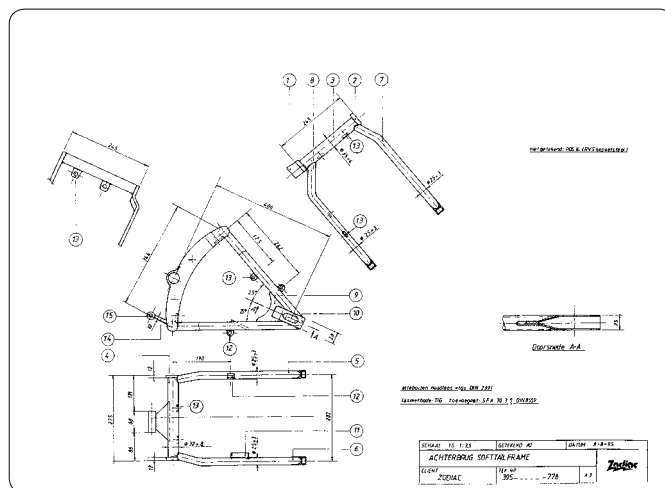
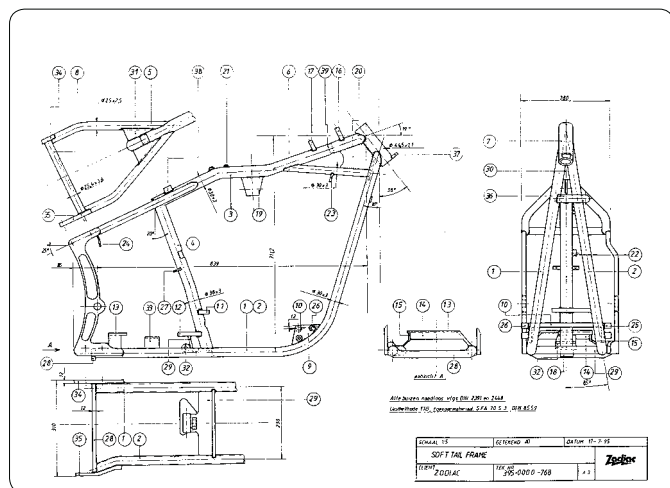


ZODIAC'S TÜV APPROVED "WIDE-TAIL" SOFTAIL FRAME

Back in the seventies, Derek Whitehead former owner of Santee Industries introduced the Softail frame. Since then many manufacturers including Harley-Davidson have brought out their version of the Softail. Nowadays Softail frames have become more and more popular amongst bike-builders. The aftermarket

can provide you with many different kinds of these frames but this is the one that has it all. The frame-building skills used to design this one resulted in a super strong frame without disturbing the beautiful lines. The widened rear-section of the frame will accept tires up to 200! It has a tasteful

38° rake, good for 4" to 8" over-stock front-ends. The Wide-Tail frame accepts all Harley Big Twin engines, including strokers, in combination with 4, 5 or 6 Speed trannies. This cool lookin' Softail frame has passed all government stress, vibration and fatigue tests, and is TÜV approved.





ZODIAC'S "WIDE-TAIL" SOFTAIL STYLE FRAME

A custom built frame should not only look right but also handle well and must withstand the most severe stress, vibration and fatigue tests. It is also normal practice that the engine and transmission combination must fit in the frame without grinding, drilling or any other modification. You can be assured that this frame is the best and nothing but the best. For the Custom Builder that likes a Softail with "Stretched Lowrider" looks, this sleek design Softail frame has it all. The Wide-Tail frame uses thick wall tubing in some sections of the frame, which drastically improves the strength and roadholding without disturbing the lines. To give that sleek, stretched lowrider look, steering head is raked to 38 degrees. This requires a 4" to 8"

overstock fork depending on the wheel and tire size used. The rear section of the frame is widened to accept extra wide tires, including our new "Big Foot" Avon 200 tire, in combination with final chain drive. All mounts for side stand and forward controls are welded in place. Frames and swingarms are fully Tig-Welded for superior strength. Frame kits come complete with frame, swingarm, stainless swingarm pivot bolt with chrome spacer and bearing kit, chrome rear wheel axle and Stainless Steel protection plates for swingarm, engine and shocks. All parts are separately available. Fender struts must be ordered separately.

Complete Wide-Tail frame kit

238760 Wide-Tail frame kit, TÜV approved

Replacement kit parts

238761 Wide-Tail frame only

238762 Wide-Tail swingarm only

237653 Stainless pivot bolt with chrome spacer

782023 Swingarm bearing (each)

237652 Rear axle with washers and nut, chrome (395 mm)

238763 Stainless swingarm plate

238764 Engine protection plate

238765 Shocks protection plate

Optional parts

237999 Fender struts (raw steel)

Note: Zodiac Wide Tail frames are approved by the Dutch R.D.W. and the German TÜV as a replacement frame for Harley-Davidson motorcycles, engine capacity may not exceed 1740 cc, power may not exceed 110 Horsepower. They

may be used in combination with our TÜV approved rear Swingarms and our TÜV approved Ceriani front forks.

Note: Wide Tail frames with a different rake are available on special order. These special ordered frames have the same quality features as the stock frames but the design change will void the TÜV approval. Special ordered frames require a 50% deposit. There is 6 to 8 weeks delivery time on those frames from the time your down payment is received. Ask your Zodiac dealer for more details



ZODIAC'S "SUPER-ASS" SOFTAIL STYLE FRAME KIT

If you are talking about a custom built frame kit that can take a real "Big-Bad-Fat-Tire" you must be talking about our "Super-Ass" frame kits. Frames used in these kits are the same as used in our TÜV approved Wide-Tail frame kits, but we have added a swingarm wide enough to accept Avon's Super wide 230 tire and still be able to use the stock final belt drive. This tire, that measures 250 mm wide on an 8" wide rim, will go straight in the Swingarm. When using the 2000 to present 1 1/8" wide final belt drive you can even mount Avon's latest trick 250 tire on a 9" wide rim. When a chain is used you can easily go up to 300 mm wide tires. The print this combination leaves on the road is the most impressive ever made by a motorcycle. These frame and Swingarm combinations are not only the best looking kits available, they also handle very well and withstand the most severe stress, vibration and fatigue tests. It is also normal practice that the engine and transmission combination fits in the frame without grinding, drilling or any other modification. You can be assured that this frame is the best and nothing but the best. The steering head is raked to 38 degrees, this requires a 4" to 8" overstock fork depending on the wheel and tire size used. All mounts for side stand and forward controls are welded in place. Frames are fully Tig-Welded for superior strength. Due to the variety of custom made wheels, axle spacers are not included. For those that want to space out the drive pulley,

an outside belt support is available. Frame kits come complete with frame, swingarm, primary spacer ring, offset transmission mounting plate, stainless swingarm pivot bolt with chrome spacer and bearing kit, chrome rear wheel axle and stainless steel protection plates for swingarm, engine and shocks. All parts are separately available. Fender struts, 25 mm extended sprocket shaft extension, and 25 mm extended sprocket shaft nut must be ordered separately.

236442 Complete Super-Ass frame kit, TÜV approved

Replacement kit parts

- 238761** Frame only
- 236687** Swingarm only
- 237653** Stainless pivot bolt with chrome spacers
- 782023** Swingarm bearing (each)
- 236432** Rear axle with washers and nut, chrome (395 mm)
- 238763** Stainless swingarm plate
- 238764** Engine protection plate
- 238765** Shock protection plate
- 236491** Inner primary to motor spacer with hardware
- 236490** Transmission off set plate



Optional parts

- 236495** Belt pulley support bearing plate with hardware
- 236444** Fender struts raw steel
- 346210** Crankshaft extension
- 346212** Motor sprocket shaft nut 1986 thru 1990
- 346214** Motor sprocket shaft nut 1991 to present

Note: Zodiac Wide Tail frames with a different rake are available on special order. These special ordered frames have the same quality features as the stock frames but the design change will void the TÜV approval. Special ordered frames require a 50% deposit. There is 6 to 8 weeks delivery time on those frames from the time your down payment is received. Ask your Zodiac dealer for more details.



ZODIAC'S FAT TUBE DRAGSTER STYLE SOFTAIL FRAME KIT

The Big Brother of our Wide-Tail and Super-Ass frames. These frames have the exact same features as our other TÜV approved Softail frames, except that the frame down tubing diameter is increased to an incredible 35 mm outer diameter and the rear swingarm tubing to 28 mm, making it the Fattest looking frame on the market. These Fat Tube Dragster Style frame kits are available in both the Wide-Tail and Super-Ass versions. Fat Tube Wide-Tail frame kits accept a 200 wide rear tire with late type Narrow final drive belt, Fat Tube Super-Ass frame kits accept 250 wide rear tire in combination with late Narrow final belt drive. **Note: Tires must be used with correct rim size.** You can be assured that this frame is the best and nothing but the best. The steering head is raked to 38 degrees (other rakes available on special order), this requires a 4" to 8" overstock fork depending on the wheel and tire size used. All mounts for side stand and forward controls are welded in place. Frames are fully TIG welded for superior strength. Frame kits come complete with frame, swingarm, stainless swingarm pivot bolt with chrome spacer and bearing kit, chrome rear wheel axle and Stainless Steel protection plates for swingarm, engine and shocks. Super-Ass frames also include a primary spacer ring, and offset transmission mounting plate. All parts are separately available. Wheel spacers, fenders and fender struts, must be ordered separately. A Super Ass frame also requires the purchase of the correct extended sprocket shaft extension and sprocket shaft nut. For those that want to space out the drive pulley, an outside belt support is available.

Complete Fat Tube frame kits

- 236875** Fat Tube Wide-Tail frame kit, TÜV approved
- 236876** Fat Tube Super-Ass frame kit, TÜV approved

Replacement kit parts

- 236872** Fat Tube frame only (35 mm frame tubes)
- 236874** Fat Tube Wide-Tail swingarm only (28 mm tubes)
- 236873** Fat Tube Super-Ass swingarm only (28 mm tubes)
- 237653** Stainless pivot bolt with chrome spacers
- 782023** Swingarm bearing (each)
- 237652** Wide-Tail rear axle with washers and nut, chrome
- 236432** Super-Ass rear axle with washers and nut, chrome
- 238763** Stainless swingarm plate
- 238764** Engine protection plate
- 238765** Shock protection plate
- 236491** Inner primary to motor spacer with hardware
- 236490** Transmission off set plate (25 mm)

Optional parts

- 236495** Belt pulley support bearing plate with hardware
- 237999** Wide-Ass fender struts, raw steel
- 236444** Super-Ass fender struts, raw steel
- 346212** Extended sprocket shaft nut 1970 thru 1990
- 346214** Extended sprocket shaft nut 1991 to present
- 346231** Extended sprocket shaft extension 1970 thru 1990
- 346210** Extended sprocket shaft extension 1991 to present

Note: Zodiac Fat Tube frames with a different rake are available on special order. These special ordered frames have the same quality features as the stock frames but the design change will void the TÜV approval. Special ordered frames require a 50% deposit. There is 6 to 8 weeks delivery time on those frames from the time your down payment is received. Ask your Zodiac





FAT TUBE RIGHT SIDE DRIVE FRAME KIT FOR UP TO 330 REAR TIRES

The Fat Tube RSD frame is designed to accommodate for the latest extreme wide rear tires, such as Avon's 300 and 330. Frame accepts stock and aftermarket Evolution style Big Twin engines, when used in conjunction with ZPN 236889 motor mount adapter it will also accept a Twin Cam 88A style engine. Must be used with Right Side Drive transmission. The Ride Side Drive frame allows for central mounting of the 330 tire in the frame and keeping a perfect balance in the bike. The frame features massive 35 mm down tubes and 28 mm swing arm tube size. In addition we increased the frame side plate thickness from 12 into 15 mm, providing Fat looks that are in balance with the wide rear tire. These side plates are stepped at the seat mounting area, allowing the use of an Evolution Softail style seat, such as our Le Pera Bare Bone seat. Frame takes up to 12 1/2" wide RSD rear fenders. The steering head is raked to 38 degrees, this requires a 4" to 6" overstock fork (depending on the front wheel and tire size used). Mounts for side stand and forward controls are welded in place. The frame also features a Twin Cam style oil drain system. Frame is fully TIG welded for superior strength and takes 1987 thru 1999 Softail style shock absorbers, Evolution Big Twin oil tank, Flat Side gas tank, Evolution Softail style forward controls, Big Twin style steering head bearing cups, and Custom rear brake calipers with Y-bracket.

722579 Fat Tube WideTail RSD frame kit

Replacement kit parts

722580 WideTail RSD frame only

237979 Stainless Steel pivot bolts

722581 WideTail RSD swingarm only

782023 Swingarm bearing (each)

722585 RSD rear axle with washers and nut, chrome

236175 RSD belt guard, raw steel

722584 Stainless swingarm plate

238764 Engine protection plate

238765 Shock protection plate

Optional parts

236889 Motor mount adapter for TC88A style engines

701802 RSD transmission conversion kit

701803 RSD transmission builders kit

720375 RSD Pulley cover with cable operated clutch actuator

720374 RSD Pulley cover with hydraulic operated clutch actuator

032418 Transmission mounting plate, chrome

734059 Transmission mounting plate, raw steel

700950 Billet aluminum fender struts

700951 Raw steel fender struts





TON PELS SIGNATURE "NORTH SEA CRUISER" RSD FRAME KIT FOR UP TO 300 REAR TIRES

This frame kit, with its "over stock size" frame tubes and 2 3/8" (60 mm) seat drop, is the perfect base to build your Fat and Mean Looking low seat custom bike. Frame is designed to accommodate for extreme wide 280 and 300 rear tires. Frame accepts stock and aftermarket Evolution style Big-Twin engines, when used in conjunction with ZPN 236889 motor mount adapter it will also accept a Twin-Cam A-style engine. Transmission mounts are for 5 or 6 speed Right Side Drive Evolution Softail style trannies. The frame features massive looking 38 mm diameter down tubes and 4" stretched 50 mm diameter backbone. The steering head is raked to 36 degrees and features a built-in steer stop. Frame comes complete with the matching steer stop plate that has to be mounted on your triple trees. Mounts for side stand and forward controls are welded in place. The frame kit comes with a custom made raw steel oil tank, as well as a raw steel battery box of which the dimensions perfectly match with our batteries like ZPN 251274 or 251273. Frame is fully TIG welded for superior strength and takes 1987 thru 1999 Softail style shock absorbers, Evolution Softail style forward controls and Big-Twin style steering head bearing cups with integrated hidden steering stop. Designed for use with custom style gas tanks. The Twin Tube Curved swing arm is made out of 1 1/4" (28 mm) diameter tubing. Swing

arm comes complete with spherical bearings and pivot bushing, features hidden axle mounts and comes with a 3/4" wheel axle, but is ready for the optional 1" diameter axle. Fender struts are also optional in straight or with 20 mm offset. Fibreglass seat base is available separately.

722299 Signature North Sea Cruiser low seat frame kit

Replacement kit parts

- 722308** North Sea Cruiser Low Seat frame only
- 722309** North Sea Cruiser Low Seat swingarm only
- 722347** North Sea Cruiser oil tank
- 722348** North Sea Cruiser battery box
- 722351** Swing arm pivot axle
- 094243** Internal fork stop plate
- 237979** Stainless Steel pivot bolts
- 782023** Swingarm bearing (each)
- 722352** Rear wheel axle with washers and nut, chrome
- 722584** Stainless swingarm plate

Optional parts

- 236889** Motor mount adapter for TC88A style engines
- 238764** Engine protection plate
- 238765** Shock protection plate
- 722353** 1" Diameter rear wheel axle
- 730499** Fenderstrut Low-Seat straight, each
- 730500** Fenderstrut Low-Seat with 3/4" (20 mm) offset, each

NEW

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SEAT BASE FOR NORTH SEA CRUISER FRAME

Fiberglass seat base built in a precision built mould, allows you to build your own style seat that perfectly fits in our North Sea Cruiser frame.

722367 Fiberglass seat base



STEEL FENDER STRUTS FOR WIDETAILE, SUPER-ASS, SPORTAIL AND STOCK SOFTAIL MODELS

These raw steel fender struts are available in various off-sets and widths. They can be used on our Wide-Tail, Super-Ass and Sportail frames, as well as to customize stock Softail models or to complete your Custom project. Straight design fender struts are available in various offsets.

Straight Design fender struts

- 236499** Fits stock Softail frames with Zodiac Wide-Ass kit and up to 10" wide fenders, can also be used for Wide-Tail, Super-Ass and Sportail frames. Both struts have 32 mm offset
- 237999** Fits Wide-Tail, Super-Ass and Sportail frames with up to 8 1/2" wide fenders with 2 mm off-set, can also be used as a replacement on pre-1985 Softail models with up to 10" wide fenders. Both struts have 34 mm offset
- 236444** Fits Wide-Tail, Super-Ass and Sportail frames with up to 10" wide fenders. also fits stock Softail frames with up to 12" wide fenders. Right side strut has 12 mm off-set
- 236434** Without offset, fits Custom frames



Curved Design fender struts

Fits Sportail, Super-Ass and Wide-Tail frames with up to 8" wide fenders, also fits stock Softail frames with up to 10" wide fenders. Both struts have 25 mm offset

- 722274** Without offset
238000 With 25 mm offset



236484



236481/236422

ZODIAC EXCLUSIVE FIBERGLASS FRONT FENDERS

The Cafe-Racer look is back. Build exclusively for Zodiac by Metapol from fiberglass composite in a precision built mould. Designed to fit front forks with 7 3/8" (187 mm) between the front forks. A perfect match with our Wide-Tail fenders and other Metapol fenders. Available in plain or with spoiler for use with 16" and 18" front wheels, and plain for 19" wheels.

For use with 16" & 18" wheels

- 236484** Front fender with spoiler
236481 Front fender plain

For use with 19" wheels

- 236422** Front fender plain



ZODIAC EXCLUSIVE COMPOSITE FRONT FENDERS

This long style front fender for 21" wheels provides over 180 degrees of coverage. Build exclusively for Zodiac by Metapol from fiberglass composite in a precision built mould. Designed to fit front forks with 7 3/8" (187 mm) between the front forks.

- 722215** 21" front fender



METAPOL'S "FATTY" STRUTLESS REAR FENDER FOR ZODIAC WIDE-TAIL FRAMES

This Wide-Tail rear fender is specially designed for use with our Wide-Tail frame. It will accommodate for up to 200 wide rear tires and is shaped in such a way it provides an extra fat look for that "Big Wheel" look. Made in Holland from fiberglass composite in a precision built mould. Has a built-in wire tunnel and gel-coat finish that makes a perfect base for a custom paint job. No fender struts are needed, as these fenders have steel plates moulded into the sides.

- 236485** Fatty rear fender for Wide-Tail frames



SHORTY STRUTLESS REAR FENDER FOR ZODIAC'S SUPER-ASS FRAMES

This Shorty fender is designed for use with Zodiac's Super-Ass frame. It will accommodate up to 230 wide rear tires and gives your bike that real "Big Wheel" exposure. Made in Holland from strong fiberglass composite in a precision built mould. No fender struts are needed, as these fenders have molded-in steel plates in the sides. Fenders have a built-in wire tunnel and a gel-coat finish that makes the perfect base for a custom paint job.

- 720427** Shorty 11" wide rear fender for Zodiac's Super-Ass frames

Note: Does not fit stock Softail



ZODIAC'S SPORTAIL SPORTSTER FRAME WITH 200 AND 250 TIRES

We have created a Sportster frame with the same sleek design as our Wide Tail Softail frame. The Sportail frame features a "Stretched Low-Rider" look, is made from thick wall quality tubing and TIG-welded for improved strength and road holding without disturbing the lines. To obtain the sleek stretched Low-Rider look the steering head is raked to 38 degrees. This requires a 4" to 8" overstock fork depending on the wheel and tire size used. The engine is located with no offset in the frame and a rear frame section wide enough to accept extra wide tires. There are two Sportail kits available, the Sportail WideAss, designed to take up to 200 tires, and the Sportail SuperAss, which is wide enough to take up to 250 wide rear tires. Both kits still work in combination with final belt drive. The SuperAss requires an off-set front pulley or a spacer behind the front pulley. Pulley cover requires spacing. The length of the frame requires the use of a drive belt with approx. 135 teeth. Mounts for a Big Twin side stand and Big Twin forward controls as well as 1974 to present Sportster forward controls are welded in place. Stock style Narrow or Wide Glide forks as well as our state-of-the-art Ceriani forks can be used with the frame, it will also accept many other Custom front forks. The frame will take any 1974 thru 1985 Ironhead Sportster engines as well as 4 Speed and 5 Speed Evolution Sportster engines. Because of the right hand final drive the stock style Softail oil tank does not fit, therefore our special Sportail style oil tank or a custom made oil tank such as our Custom Round oil tank must be used. The frame is designed to take Softail type parts and accessories such as Flat Side tanks, forward controls, seats and 1989 thru 1999 Softail

shock absorbers. Due to the completely different shape of the swingarm a Rigid Frame type rear caliper kit must be used.

236176 Complete Sportail "WideAss" frame kit (for 200 tire)

236207 Complete Sportail "SuperAss" frame kit (for 250 tire)

Complete kit includes: Sportail frame, swingarm, stainless swingarm pivot bolts with chrome spacer, swingarm bearing kit (set of 2), chrome plated rear axle with washers and nut, stainless swingarm plate, rear brake anchor rod, front motor mount, rear motor mount, belt guard (raw steel), engine protection plate and shocks protection plate.

Replacement kit parts

236171 Sportail frame only

236197 Sportail WideAss swingarm only

237652 Rear axle with washers and nut, chrome (340 mm)

236200 Sportail SuperAss swingarm only

236432 Rear axle with washers and nut, chrome (395 mm)

237653 Stainless swingarm pivot bolts with chrome spacer

782023 Swingarm bearing (each)

238763 Stainless swingarm plate

238764 Stainless engine protection plate

238765 Stainless shock protection plate

236172 Rear brake anchor rod

236174 Front motor mount

236173 Rear motor mount

236175 Belt guard, raw steel

Optional parts

236170 Sportail oil tank

238000 Fender struts (raw steel)

056070 Steering head bearing cups

056072 Steering head bearing (2 needed)

238784 128 tooth belt for use with 29/55 pulley in WideAss (OEM 40038-91)

238690 133 tooth belt for use with 29/61 pulley in WideAss (OEM 40015-00)

238689 135 tooth belt for use with 29/61 pulley in SuperAss (OEM 40307-00)

339107 Chain/belt adjuster kit, chrome

710606 Shock mounting kit, zinc

710607 Shock mounting kit, chrome

710011 Harrison Billet 4 piston Rear Custom caliper kit

710013 Harrison Billet 6 piston Rear Custom caliper kit

721402 PM Rear Custom caliper kit, polished

1989 thru 1999 Softail shock absorbers can be found elsewhere in this section.

Note: Zodiac Sportail frames are TÜV approved as a replacement frame for Harley-Davidson Sportster motorcycles. They may be used in combination with our TÜV approved Ceriani front forks and/or any other TÜV approved components.

BUILD YOUR OWN FRAMEKITS

For the custom bike builder that likes our frames but wants to make some modifications before the frame is welded together we offer a B.Y.O.



frame kit (Build Your Own). These kits contain all frame tubes, lugs reinforcement plates, engine mounts etc. to build a complete frame. We also included a drawing with all important measurements. This frame kit allows the experienced custom builder, with a TIG or MIG welding machine and the knowledge of frame building, to assemble his own frame. All Zodiac frames are available as a B.Y.O. kit, ordering a B.Y.O. frame is simple. Just put B.Y.O. behind the Zodiac part number. For styles and application, check the complete frame section.

Note: If you have no experience in frame building and or welding, you should ask the assistance of a professional welder. Also



TON PELS' SIGNATURE SERIES HIGH NECK "NORTH SEA CHOPPER" FRAMES

Another stunning design from The Godfather himself. This project initially started when Ton was building his own straight backbone, High-Neck chopper "The Coast-Line Tramp". The Coast-Line Tramp was styled after the previously built "New York Chopper" but with a frame that had a higher neck and large diameter frame tubes, fat forks, a stretched fuel tank, a real fat rear tire and a Big Inch motor (Ton likes Big Engines). The finished bike looked very radical and wild. Anyone riding it found it suprisingly well to handle, but not Ton, for him this is a must. His philosophy is: A Custom build bike must not only look right, it also must handle right. If a Custom build bike is not rideable it becomes a piece of expensive and useless furniture. The radical design and style of the Coast-Line Rebel appealed to almost anyone that saw the bike, add to that the growing demand for High Neck Custom frames and a decision to convert the frame of the Coast-Line Tramp chopper into a production model was easily made. The original design was for an Evolution type engine and transmission combination added were a rigid version as well as a single down tube version in both Softails and rigid. The 6" stretch in the tubes together with the 36 degree rake allow the use of 12" over stock (FL) length front forks, providing that wild High Neck look. Use this fork length in conjunction

with 3 degrees raked triple trees and a 21" front wheel, and the bike will handle exactly as good as Ton's original. The rear section of the frame has a unique construction. To avoid the typical "Softail with Wide tire problems" the rear belt runs on the outside of the frame and depending on the offset kit used it will accept 250, 280 and 300 rear tires. Engine and transmission mounts are in the stock position; just the primary drive is installed offset. It uses our 45 mm offset kit for up-to 280 tires, or 55 mm for up to 300 tires. Frames are available for Evolution Big Twin type engine/transmission combination as well as for Twin Cam Softail style engine/transmission combination.

Note: Softail frames do not include swingarm. Swingarm must be ordered separately. All frames use Twin Cam style oil tank.

Softail frame for Evolution style engine/transmission

- 722221** Frame, dual down tube
- 722225** Frame, single down tube
- 722218** Swingarm

Softail frame for Twin Cam Softail style engine/transmission

- 722222** Frame, dual down tube
- 722226** Frame, single down tube
- 722218** Swingarm



Rigid frame for Evolution style engine/transmission

- 722223** Frame, dual down tube
- 722227** Frame, single down tube

Rigid frame for Twin Cam Softail style engine/transmission

- 722224** Frame, dual down tube
- 722228** Frame, single down tube

Optional Parts

- 722312** North Sea Chopper frame seat base
- 094243** Steer stop plate



KRAFT/TECH SOFTAIL STYLE SINGLE CURVED DOWN TUBE FRAMES

Kraft/Tech frames are an other Zodiac exclusive. These high quality frames and swingarms are handcrafted in the USA, using the highest quality steel. All steel tubing of frames and swingarms is in-house mandrel bent and further in-house TIG-MIG welded on state-of-the-art equipment. Kraft/Tech single down tube Softail style frames are available to accept Panhead, Shovelhead, Evolution or Twin-Cam B style engines. Frames for stock and aftermarket

Panhead, Shovelhead and Evolution engines are set up for 1987 thru 1999 Softail shocks. Frames for Twin Cam B engines as used in 2000 to present Softail are set up for 2000 to present Softail shocks. All frames have a beefy 2" single curved down tube for pleasing aesthetics. 1 3/4" backbone tubing and 1 3/8" or even 1 1/2" for all other frame and swingarm tubing. Solid steel front and rear motor mounts are welded in place and milled for easy installation of

engines. Solid steel transmission plates and transmission mounts are welded in place to provide maximum strength and best possible drive line alignment. Necks are CNC-machined from solid steel designed with integral neck webbing for unparalleled strength, available in various rakes. An adjustable steel seat bracket is welded on the frame to fit the OEM and most aftermarket seats. Each frame includes a beefy 1 3/8" steel tubing swingarms in either High Torque Style or Curved Dagger Style. Swingarms feature hidden mount rear wheel axle. For ideal weight balance the frames are available as regular Left Side Drive (LSD) for maximum 250 wide tire applications or Right Side Drive (RSD) for 250-up applications. Frames are supplied complete with swingarm, swingarm pivot axis, swingarm pivot bolts, swingarm pivot bearings, rear wheel axle, rear wheel axle covers and rear wheel axle adjusters.

Frames for Panhead, Shovelhead and Evolution engines

ZPN	Final drive	Belt Width	Tire Width	Tubing	Rake	Up Stretch	Backbone Stretch	Swingarm
751452	Left	1 1/2"	180	1 3/8"	38	8"	8 1/2"	High Torque Style 3/4" axle.
751453	Left	1 1/8"	250	1 3/8"	40	2"	5"	High Torque Style 1" axle
751454	RSD	1 1/2"	300	1 1/2"	38	8"	8 1/2"	Curved Dagger Style 1" axle
751454	RSD	Chain	330	1 1/2"	38	8"	8 1/2"	Curved Dagger Style 1" axle

Frames for Twin-Cam B engines as used in 2000 to present Softail models

ZPN	Final Drive	Belt Width	Tire Width	Tubing	Rake	Up Stretch	Backbone Stretch	Swingarm
751451	RSD	1 1/2"	300	1 1/2"	38	4"	6 1/2"	Curved Dagger Style 1" axle
751451	RSD	Chain	330	1 1/2"	38	4"	6 1/2"	Curved Dagger Style 1" axle

TÜV approval in progress at time going to print



KRAFT/TECH SOFTAIL STYLE DUAL STRAIGHT DOWN TUBE FRAMES

Kraft/Tech, Inc. is manufacturer of aftermarket motorcycle frames and swingarms since 1990 and distributed in Europe exclusively by Zodiac. These high quality frames and swingarms are handcrafted in the USA, using the highest quality steel. All steel tubing of frames and swingarms is in-house mandrel bent and further in-house TIG-MIG welded on state-of-the-art equipment. Kraft/Tech dual down tube Softail style frames are available for Panhead, Shovelhead and Evolution style engines. Frames are set

up for 1987 thru 1999 Softail shocks. All frames have straight down tubes with solid steel welded front and rear motor mounts. Motor mounts are milled for easy installation of engines and feature built-in offsets for perfect weight balance of wide tire applications. Solid steel transmission plates and transmission mounts are welded in place to provide maximum strength and best possible drive line alignment. Frames for 200 thru 250 wide rear tires have offset transmission mounts and require the

use of a 25 mm inner primary spacer ring and extended crankshaft extension. Necks are CNC-machined from solid steel, available in various rakes. Steel gas tank mounts are welded in place to suit OEM and most aftermarket flatside gas tanks. An adjustable steel seat bracket is welded on the frame to fit OEM and most aftermarket seats. Swingarms are available in 3 styles: Stock Style with stock carriers and 3/4" axle, High-Torque Style with 1" hidden axle and Dagger Style with 1" hidden axle. For ideal weight balance the frames are available as Regular Left Side Drive (LSD) up to 250 wide rear tire and Right Side Drive (RSD) for wider than 250 rear tire.

Frames for Panhead, Shovelhead and Evolution engines

ZPN	Final Drive	Belt Width	Tire Width	Tubing	Rake	Up Stretch	Backbone Stretch	Swingarm
751445	LSD	1 1/2"	Stock	1 1/4"	30	0"	0"	Not included
751446	LSD	1 1/2"	200	1 1/4"	34	4"	1 1/2"	Stock Style 3/4" axle
751447	LSD	1 1/2"	200	1 3/8"	35	2"	0"	High Torque Style 3/4" axle
751448	LSD	1 1/2"	200	1 3/8"	35	8"	4"	High Torque Style 3/4" axle
751449	LSD	1 1/8"	250	1 3/8"	38	2"	0"	High Torque Style 1" axle
751450	LSD	1 1/8"	250	1 3/8"	35	8"	4"	High Torque Style 1" axle
751455	RSD	1 1/2"	300	1 1/2"	40	2"	5"	Dagger Style 1" axle
751455	RSD	Chain	330	1 1/2"	40	2"	5"	Dagger Style 1" axle

TÜV approval in progress at time going to print





KRAFT/TECH RIGID DUAL STRAIGHT DOWN TUBE FRAMES

Kraft/Tech frames are an other Zodiac exclusive. These high quality frames and swingarms are handcrafted in the USA, using the highest quality steel. All steel tubing of frames and swingarms is in-house mandrel bent and further in-house TIG-MIG welded on state-of-the-art equipment. For building a real "Bobber" we supply these hardtail

style frames with dual straight down tubes. These frames accept Panhead, Shovelhead and Evolution style engines with clearance for cylinders up to .200" taller than stock. These rigid frames have solid steel welded front and rear motor mounts with offset to accept up to 180 wide tires. Engine bolts right in without any modification or spacing.

The solid steel transmission plate is designed to take an Evolution Softail style transmission housing. This mount has a built-in offset and is welded into the frame to provide maximum strength and accurate drive line alignment. The back bone is made from 1 1/2" steel tubing, with welded gas tank mounts to suit Softail-style flatside tanks. All other tubing is 1 1/4" diameter. Frame has a provision for 1986 thru 1999 Softail style rear caliper brackets. Rear fender bracket and an adjustable seat bracket are also welded in place. Frame also features OEM style rear axle carriers to take the included 3/4" rear wheel axle and stock style axle adjusters. Frame takes a 180 wide rear tire in combination with an 1 1/2" wide belt. Available with a 34 degree rake, 4" up stretch and 1 1/2" back bone stretch or 30 degree rake in stock length and height.

Frames for Panhead, Shovelhead and Evolution engines

ZPN	Final Belt drive	Tire Width	Tubing	Rake	Up Stretch	Backbone Stretch
751456	LSD	180	1 1/4"	34	4"	1 1/2"
751457	LSD	180	1 1/4"	30	0"	0"

TÜV approval in progress at time going to print



KRAFT/TECH HARDTAIL FRAME FOR EVOLUTION SPORTSTER

These HardTail frames are developed for the 1986 thru 2003 5 Speed Evolution Sportster engine. Like all Kraft/Tech frames, they are made from seamless thick-wall tubing. Features 1 1/4" tubing with a 1 1/2" diameter backbone and takes Softail-style winged oil tank (ZPN

751464). Available with stock 30 degrees rake and use of 130 wide rear tire in conjunction with a 1 1/8" belt, stock 30 degrees rake and 2" stretch in the down tubes for use with a 180 wide rear tire and 1 1/8" wide belt or with a 40 degrees rake and 3" stretch in the downtimes for use with a 180 wide rear tire and 1 1/8" wide belt. The wide frames will accept a 200 wide rear tire when final drive is converted to chain drive. All frames feature TIG/MIG welds, solid steel CNC machined neck, CNC machined billet steel axle carriers, and in-place welded oil tank brackets, fender mounts and voltage regulator mount. Come complete with 3/4" rear wheel axle. Frames are designed to use

a 1/2" offset transmission sprocket for proper balance. For the HardTail Sportster frames is TÜV approved in progress.

- 751461** Frame with stock 30 degrees rake and use of 130 series rear tire
- 751462** Frame with stock 30 degrees rake, use of 180 or 200 series rear tire and 2" stretched height
- 751463** Frame with 40 degrees rake, use 180 or 200 series rear tire and 3" stretched height

Optional parts

- 751464** Rear fender brace for 180/200 series frames
- 751465** Winged oil tank

TÜV approval in progress at time going to print



AMERICAN MADE LOWLIFE CHASSIS KIT

For those who want more than just a frame, stop looking. This is the most radical frame on the planet. Look at how the frame tubes are shaped and so giving the frame its long and low radical look. The entire frame is constructed of DOM tubing with all radial bends and a triangulated high-strength design. The engine and transmission mounts were placed in the center of the frame. The frame is designed exclusively for a RSD transmission. The neck rake is 40 degree with a 7" rake in the top tube and no rake at the front tube. The machined neck is ready to accept press in bearing races without using the fork cups. And with narrowed bottom frame rails for better cornering the frame is superb in handling. The final drive is outboard so no extra work is needed when mounting that fat 300 tire or changing belt drive. The oil tank is hidden underneath the frame and the Legend airsuspension, which is added in the package, is flush mount with the bottom frame rails. The compressor is hidden in the rubber mounted battery casing. Also included in the package is an exclusive open primary. This original extended length primary is made around a one-piece billet aluminum backing plate. It is complete with both pulleys, a Gates belt and a Riviera Pro-Clutch. Because of the extended length of the frame we include mid foot controls, completed with a master cylinder from Performance Machine, which are giving the same riding position as forward controls. The swingarm uses the same beautiful radial bends and geometrical



advantages as the frame itself. It is designed for Right Side Drive (RSD) only and accepts 250 up to 300 mm tires. It comes with a 1" Stainless Steel axle with flush axle caps and hidden fasteners. Of course we also included Stainless steel flush mounted pivot bolts, pivot axle and pivot bearings.

Frame package includes: Frame with swingarm, Legend-Air Suspension, Primo 3" open belt with Rivera Pro-Clutch and starter jack shaft, neck bearings, rubber mounted oil tank, rubber mounted battery box, Stainless Steel splash guard, 1" Stainless Steel rear axle and flush mount axle caps with hidden fasteners and Mid foot controls.



722530 Lowlife Frame package kit



HARDLIFE CHASSIS KIT

Hardcore rigid version of the Lowlife chassis kit.

722531 Hardlife chassis kit



SOFTAIL STYLE FRAME KIT FOR X-WEDGE ENGINES

This frame kit is designed to get you on the road fast. Other than the X-Wedge specific motor mounts, this frame accepts most stock or aftermarket chassis, brake and suspension parts designed to fit Twin Cam Softtail models. One exception to this is that the frame is applicable with 1984 thru 1999 style forward controls. The frames are built to accommodate a 200mm rear tire with a 1 1/8" final belt drive. Transmission mount is 3/4" offset. Primary must be installed with a (not included) 3/4" primary spacer ring. Frame has a 2" diameter backbone with 2" stretch and 30 degree neck rake. Comes complete with stock and custom style weld-on gas tank mounts, 4 quart (3.7 ltr) wrap-around oil tank with integrated battery box, Softail style swingarm, 1" rear wheel axle with axle plates and hardware. Battery box measures 4 3/4" wide, 7" long and 6" high.

750874 S&S Softail style frame kit for X-Wedge

742350 3/4" primary spacer ring



EXTRA WIDE SOFTTAIL FRAMES

These extra wide frames allow the use of up to 250 tires without loosing your belt drive. The 10 mm offset in the frame in combination with a 25 mm offset kit will give enough room for a 210 mm tire when you use a 1 1/4" wide final drive belt. If you use a 35 mm offset kit in conjunction with the late 1 1/8" wide belt or a chain drive, you can even go to 250 mm wide tires on a 9.00" rim. Frames are available with 34 or 36 degree neck rake. They come with steering lock housing, coil mounts and Flat Side tank mounts installed. Accepts Flathead, Knucklehead, Panhead, Shovelhead and Evolution Big Twin motors with 5 Speed transmission. When the frame is slightly modified, it will also take a Twin Cam "A" style engine, as used in Dyna models and FL(H)(T) models, in conjunction with a 1985 thru 1999 style Softail transmission when our ZPN 236889 rear motor mount adapter is used. Matching extra wide swingarms are available in Stock style and Dragster style and must be ordered separately.

238749 Extra wide Softtail frame with 34 degree rake

238750 Extra wide Softtail frame with 36 degree rake

238751 Extra wide Stock style Swingarm

238856 Rear wheel axle for extra wide Stock Style swingarm (400 mm long)

238752 Extra wide Dragster Style Swingarm

238845 Rear wheel axle for Dragster style swingarm (380 mm long)



STEERING LOCKS & STEERING LOCK HOUSINGS

"Turn, push and turn back" type top quality steering locks from Germany.

The complete set includes the weld-on housing for the steering head, the lock, the spring, the chrome cover and the rivet with spring washer. Our frames are supplied with the lock housing welded on, all you need to order extra ZPN 711480 steering lock and ZPN 711481 washer, spring and rivet set. Locks come with 2 keys.

711479 Complete set with lock, weldon housing, chrome cover, and rivet with spring washer

711480 Steering lock only

711481 Chrome cover, spring and rivet with spring washer

711482 Rivet with spring washer



A. Stock Style 4 Speed models

B. Dragster Style 4 Speed models



SOFTAIL FRAMES

Softail frames sold from stock have 34 or 36 degree neck rake. Swingarms are available in Stock style, Offset and Dragster style. These Swingarms fit the stock frame as well as these frames. The Offset Xtra Wide swingarm and Dragster Style swingarm in conjunction with a 25 mm offset kit will allow you to fit an up to 190 mm wide wheel/tire combination. Accepts Flathead, Knucklehead, Panhead, Shovelhead and Evolution Big Twin motors with 5 Speed transmission. Frames come with steering lock housing, Flat Side tank mounts, and coil mounts.

- 238745** Softail frame with 34 degree neck rake
- 238746** Softail frame with 36 degree neck rake
- 238747** Stock Style swingarm
- 238843** Rear wheel axle (350 mm long)
- 238687** Offset Xtra Wide swingarm
- 238844** Rear wheel axle for Xtra Wide swingarm (370 mm long)
- 238748** Dragster Style swingarm
- 238844** Rear wheel axle for Dragster style swingarm (370 mm long)

Note: Softail frames with other specifications can be made on special order.



- C.** Dragster Style Softtail models
- D.** Stock Style Softtail models

Swingarm pivot axle for Dragster style swingarms

- 720395** Stock width for Softail frames
- 720396** Xtra wide for Softail frames
- 720397** Stock width for swingarm frames



STRETCHED SOFTAIL FRAMES

Stretched Softail frames feature a 36 degree neck rake combined with 1" (2.5 cm) stretch in the front down tubes and 5" (12.5 cm) stretch in frame length. They come with a chopper tank mount to allow you to position an up to 5" stretched tank in the way you like it. In combination with the Dragster Style swingarm, and a 25 mm offset kit you can use up to 190 mm wide wheel/tire combinations and still use the stock rear belt drive. Frame accepts Flathead, Knucklehead, Panhead, Shovelhead and Evolution Big Twin motors with 5 Speed transmission. Can also be used with slight modifications for a Twin Cam "A" style engine, as used in Dyna and FL(H)(T) models, in conjunction with a 1985 thru 1999 style Softail transmission when our ZPN 236889 rear motor mount adapter is used. Frames come with steering lock housing, Flat Side tank mounts, and coil mounts swingarms are not included with the frame, they must be ordered separately.

- 238753** Stretched Softail frame with 36 degree rake
- 238747** Stock Style swingarm
- 238843** Rear wheel axle for Stock Style swingarm (350 mm long)
- 238844** Rear wheel axle for Xtra Wide swingarm (370 mm long)
- 238748** Dragster Style swingarm
- 238844** Rear wheel axle for Dragster Style swingarm (370 mm long)



“HYDRA STYLE” SOFTAIL FRAMES

The look of the Fifties with today's technology. This Softtail frame features cast, Hydra style, sidecar-mounting lugs to emphasize its classic looks. Frame is available with 34 degree neck rake, Straightleg style down tubes. Comes with steering lock housing, Flat Side tank mounts and coil mounts. The Hydra Style frame takes Big Twin Flathead, Knucklehead, Panhead, Shovelhead or Evolution motors with 5 Speed transmission. The Stock Style swingarm is designed for hydraulic drum brake. The Xtra wide swingarm comes complete with an adapter bushing to take late 1987 thru 1999 Softtail style brake calipers and takes up to 200 wide rear tires when used in conjunction with a 25 mm offset kit.

720398 Hydra Style Softtail frame, Straightleg



720405 Hydra Style swingarm, stock width

238843 Rear wheel axle for stock width swingarm (350 mm long)

720393 Hydra Style swingarm, Xtra wide

238844 Rear wheel axle for Xtra wide swingarm (370 mm long)



EXTREME HARDTAIL FRAMES

The Extreme HardTail frame is designed to accommodate the 230/60 x 15" Avon rear tire on an up to 9" wide rim. The motor and transmission mounts have a 12 mm offset in the frame and the frame is designed for use with final chain drive. When installed with a 35 mm offset kit, and 1 1/4" wide final belt you can use an up to 250 mm wide rear wheel/tire combination. You can even go up to a 270 mm wide rear wheel/tire combination when you use the late style 1 1/8" belt or chain. Frames are available with the front down tubes in Wishbone, or Softtail style. Both styles have a steering lock housing, Flat Side tank mounts, Sidecar lugs, and coil mounts installed. Frames have stock length and neck angle is 34 degrees but are available on Special Order in up to 5" stretch in the down tubes and a rake from 30 to 45 degrees. Extreme HardTail frames accept Big Twin Flathead, Knucklehead, Panhead, Shovelhead or Evolution motors in combination with a 5 Speed transmission. Frames are TÜV approved.

Extreme HardTail frames with 5 Speed transmission mounts

722073 Extreme HardTail Wishbone style down tubes

722074 Extreme HardTail Softtail style down tubes

720407 Rear axle (435 mm long)



NEW YORK CHOPPER STYLE HARDTAIL FRAMES

When you want to build a true "Easy Rider Style" bike, this frame, with 36 degrees rake and 1" stretch in the

front down tubes, is the choice to pick. Accepts Flathead, Knucklehead, Panhead, Shovelhead, and Evolution Big Twin motors in combination with 5 Speed transmission. Engine and transmission mount are 10 mm offset. The frame is wide enough to fit up to 200 wide rear tires, when fitted with a 25 mm offset kit. Frame comes with Flat Side tank mounts, coil mounts and steering lock housing installed. Available with Wishbone style down tubes.

722076 New York Chopper frame, Wishbone

238856 Rear wheel axle (400 mm long)



PRIMARY OFFSET KITS FOR 5 & 6 SPEED MODELS INCLUDING 1999 THRU 2005 DYNA TWIN-CAM & 2000 THRU 2006 SOFTAIL TWIN-CAM

Contrary to Evolution models it is not possible to move the transmission on Twin-Cam models to the left as these models have the transmission bolted to the crankcase. The Zodiac off-set kit enables you to move your primary 12, 25, 45 or 55 mm without moving your stock or aftermarket 5 Speed transmission, or 25, 45 or 55 mm when you have a 6 Speed Zodiac transmission or conversion. All these kits come with an extended transmission main shaft and extended transmission main drive 5th gear, leaving the transmission housing in exactly the same place but allowing you to offset the front final drive pulley, thus creating space for a wide rear tire. And when we say wide we mean WIDE. The 12 mm off-set kit allows the use of a 200 tire with the stock belt in an Evolution or Twin-Cam frame, the 25 mm offset kit allows a 230 wide tire on a 7.50 rim in both the Evolution and Twin-Cam frame if the late type "narrow" final drive belt drive is used. If a chain is used for the final drive the stock frames will accept up to 250 wide tires on a 9.00" rim. The transmission main shaft and drive gear are CNC manufactured from High Stress 20CrMnT gear steel by one of the worlds leading automotive transmission factories. Gear and shaft are tempered and stress released to a core hardness of 35 to 45 Rockwell and have a surface hardness of 58 to 60 Rockwell. Our offset primary kits contain: primary spacer ring, extended crankshaft extension and extended crankshaft nut, extended transmission main shaft, extended main drive 5th gear with needle bearings and seal, extended belt pulley spacer, extended clutch push rod, extended starter jack shaft (only for 25, 45 and 55 mm kits), starter jack spacer, primary-to-transmission spacers and all required hardware. When you have a 1991 thru 1993 model 5 Speed transmission you must order a countershaft 5th gear, extended starter jack shaft bolt and late style final drive pulley separately. Wide swingarm and fender struts must be ordered separately and can be found in chapter 17 of this catalog.

5 Speed offset primary kits for Evolution Big-Twin models 1991 to 1999, Dyna Twin-Cam models 1999 thru 2005 and Softail Twin-Cam models 2000 thru 2006

- 700878** 12 mm offset primary kit
- 700889** 25 mm offset primary kit
- 700925** 45 mm offset primary kit
- 701120** 55 mm offset primary kit

Optional parts needed for use with 1991 thru 1993 style 5 Speed transmissions (not for RevTech).

- 237074** Countershaft fifth gear
- 741165** Extended starter jackshaft screw
- 193009** Late style final drive pulley

Offset primary kits for Evolution Big-Twin models 1991 to 1999, Dyna Twin-Cam models 1999 thru 2005 and Softail Twin-Cam models 2000 thru 2006 with Zodiac, Jims, Baker or similar 6 Speed transmission.

- 700935** 25 mm offset primary kit
- 700936** 45 mm offset primary kit
- 701130** 55 mm offset primary kit



EXTENDED SPROCKET SHAFTS, MOTOR SPROCKET NUTS, PRIMARY SPACER RINGS AND OFF-SET TRANSMISSION PLATES

For the Custom builder that wants extra fat tires but does not want the hassle of setting the motor off-center, Zodiac offers 12, 25, 35, and 45 mm extended motor sprocket shafts, motor sprocket nuts and spacer rings to fit most Big Twin models from 1970 to present. To cope with the extra forces of the 45 mm crankshaft extension, the 45 mm spacer ring comes with an installed support bearing. There are also off-set transmission plates available for Softail models thru 1999.

Extended motor sprocket shaft fits Shovelhead models 1970 thru 1984

- | | | | |
|---------------|---------|---------------|---------|
| 346230 | + 12 mm | 346231 | + 25 mm |
|---------------|---------|---------------|---------|

Extended motor sprocket shaft fits FLT 1985 to present, FXR 1985 thru 1994, Dyna models 1991 to present and Softail models 1991 to present

- | | | | |
|---------------|---------|---------------|---------|
| 346211 | + 12 mm | 346210 | + 25 mm |
| 346223 | + 35 mm | 346222 | + 45 mm |
| | | 346240 | + 55 mm |

Extended motor sprocket shaft nut, fits all Shovelhead models 1970 thru 1984 and Softail models 1984 thru 1990

- | | | | |
|---------------|---------|---------------|---------|
| 346213 | + 12 mm | 346212 | + 25 mm |
|---------------|---------|---------------|---------|

Extended motor sprocket shaft nut, fits all Big Twin models 1991 to present

- | | | | |
|---------------|---------|---------------|---------|
| 346215 | + 12 mm | 346214 | + 25 mm |
| 346224 | + 35 mm | 346229 | + 45 mm |
| | | 346241 | + 55 mm |

Inner primary to motor spacer ring, fits all Big Twin models 1970 to present

- | | | | |
|---------------|---------|---------------|---------|
| 236497 | + 12 mm | 236498 | + 25 mm |
| 236619 | + 35 mm | | |

Inner primary to motor spacer with support bearing, fits all Big Twin models 1970 to present

- | | | | |
|---------------|---------|---------------|---------|
| 700919 | + 45 mm | 701126 | + 55 mm |
|---------------|---------|---------------|---------|

Off-set transmission plates fits Softail models 1986 thru 1999

- | | | | |
|---------------|---------|---------------|---------|
| 236496 | + 12 mm | 236490 | + 25 mm |
|---------------|---------|---------------|---------|



PRIMARY OFFSET KITS FOR 6 SPEED 2007 UP SOFTAIL AND 2006 UP DYNA MODELS

In 2006 the OEM transmission for Dyna's and in 2007 for Softails changed from 5 to a "Sportster like" trapdoor mounted 6 speed. With that the complete internals changed including the mainshaft and the output drive gear. All previous available offset kits no longer fit the present OEM 6 speed Big-Twin transmissions. Therefore Ton Pels designed a totally new offset kit. This offset kit allows the use of wider swing arms for up to 280 rear tires whilst keeping the wheel perfectly in center with the motorcycle. Kits come with all required parts, such as an extended transmission main shaft and extended main drive gear, primary spacer ring, primary spacer blocks, extended clutch push rod, crankshaft extension and all required gaskets, seals and hardware. The 280 kit also includes an offset frame side plate. Transmission main shaft and main drive gear are CNC machined from High Stress 20CrMnT gear steel forging by one of the worlds leading automotive transmission factories. Gear and shaft are tempered and stress released to a core hardness of 35 to 45 Rockwell and has a surface hardness of 58 to 60 Rockwell. Kit must be used with 20 mm rear belt. **Note:** Wide wheel, tire, swing arm and fender struts must be ordered separately

6 Speed primary offset kits for 2006 to present Dyna, 2007 to present Softail, except Rocker models

701950 Primary offset kit for 250 tires

701952 Primary offset kit for 280 tires



"WIDE-ASS" SWINGARM KIT FOR LATE 1987 THRU 1999 EVOLUTION SOFTAILS

This very complete swingarm conversion kit enables you to mount a 200 wide tire in the stock frame and still keep the stock drive belt without any trimming. Each kit includes the right parts and hardware for the right years, check carefully what you need before ordering. Due to the extra width of this kit the stock fender and fender struts can no longer be used, extra wide aftermarket fenders and struts must be used. Where applicable the original struts must be cut-off and replaced and replaced by bolt-on type fender strut ZPN 236499. Also on some models it may be needed to grind down the square bottom bar support to clear the shock absorber eyes. Zodiac offers up-to 11" (28 cm) rear fenders in the fender section of this catalog. Each kit includes: Off-set swingarm, wheel adjuster set, wheel axle spacers, wheel axle, sprocket spacer, sprocket support, allen bolts for sprocket/support mounting, off-set transmission plate, primary spacer, longer inner primary mount bolts, crankshaft extension, extended crankshaft nut and a primary gasket kit with extra O-ring. A special triangle shaped transmission side mount plate eliminates the use 5th transmission stud and allows the use of the OEM and all aftermarket shock absorbers. All parts are separately available. Note: ZPN 236486 can also be fitted on 1985 thru early 1986 models when a late model rear brake caliper is fitted.

Complete "Wide-Ass" kits

236486 Complete kit, fits late 1987 thru 1988

236487 Complete kit, fits 1989 thru 1990

236488 Complete kit, fits 1991 thru 1999

Individual parts

236489 Swingarm only

236490 Off-set transmission plate 25 mm

346210 Crankshaft extension 1986 to present

346212 Extended crankshaft nut 1986 thru 1990

346214 Extended crankshaft nut 1991 to present

236491 Primary spacer ring with hardware

236492 Rear pulley to wheel spacer

236480 Rear axle only

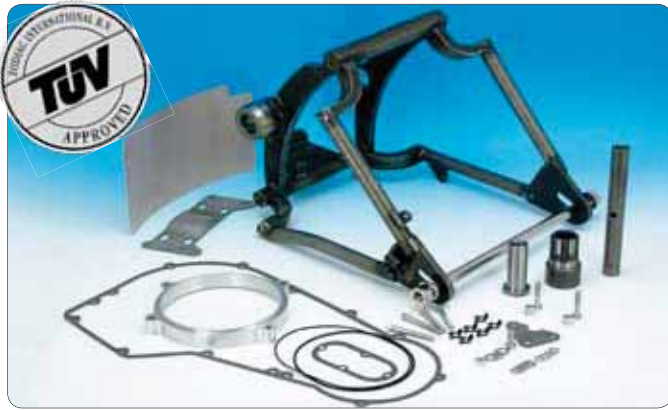
236493 Wheel axle spacer long

236494 Wheel axle spacer short

236495 Sprocket support with hardware

236499 Optional fender struts, raw steel

Note: For primary gaskets and O-rings see gasket section



"SUPER-ASS" SWINGARM KITS FOR 1991 THRU 1999 SOFTTAILS AND ZODIAC WIDETAILED FRAMES

The Super-Ass swingarm kit is for those that want to convert their Softail or Wide-Tail Softtail to accept Avon's 230 X 15 Super Wide rear tire. This tire measures 250 mm wide if fitted on an 8" wide rim. Kit bolts straight into both the stock Softail frame as well as the Zodiac WideTail frame. You can still use the final belt drive when used in a WideTail frame, a stock Softail must be converted to final chain drive or the late 20 mm wide belt. When you use this narrow belt or a chain in a Zodiac WideTail frame you can easily go up to a 250 series tire.

The complete kit includes:

- Fully TIG welded swingarm with stainless fender extension plate
- swingarm pivot
- rear wheel axle with chrome nuts
- crankshaft extension for 1986 thru 1999 models
- extended crankshaft nut for 1991 thru 1999 models
- primary spacer with O-ring and bolts
- longer inner primary mounting bolts
- primary gasket set
- transmission off-set plate
- a complete new bracket and hardware kit for the 5th transmission mounting stud

Kits can also be used for 1987 thru 1990 models if correct crankshaft extension, extended sprocket shaft nut and primary gaskets are used. Due to the wide variety of wheels, fenders, fender struts, and wheel spacers are not included, these can be found elsewhere in this catalog.

Complete kits

236443 Super-Ass swingarm kit for 1991 thru 1999 Softail and Wide-Tail frames (TÜV approved)

Replacement kit parts

- 236687** Swingarm only
- 741164** Pivot axle, spacer only, 236 mm
- 238763** Stainless steel fender extension plate
- 236490** Off set transmission plate
- 346210** Crankshaft extension 1986 thru 2006
- 346214** Extended crankshaft nut 1991 thru 2006
- 236491** Primary spacer ring with hardware
- 236432** Rear axle with washer and nut, chrome (395 mm)

Optional parts

236444 Fender struts raw steel



ZODIAC'S "DELUXE" 250 SWING ARM KIT FOR SOFTAIL

Converting your Softail to a wide rear tire has never been difficult with the Zodiac wide tire kits. Now, with the extremely competitive priced DeLuxe swingarm kits it is even more easy. These kits bolt into stock Softail frames on 1991 to present models and allow the installation of a 250 wide rear tire on a 8.50" wide wheel. These very complete kits include all parts needed offset the primary and leave the engine and transmission in the stock position. Only the complete primary is mounted offset by means of an included transmission extended main shaft and main drive gear. The only "modification" that is to be made to the stock frame is cutting off the existing fender struts and replacing them with the included chrome billet aluminum ones. Kits include a black powdercoated swingarm, chrome rear axle, black axle covers, black floorboard spacer, stainless steel splash guard, chrome belt guard, swingarm pivot bearings, raw steel rear fender, billet aluminum fender struts, billet aluminum primary spacers, steel sprocket shaft extension, extended transmission mainshaft, extended transmission mainshaft drive gear, starter shaft extension and all required hardware, gaskets and seals. Kits are designed for use with a narrow 20mm final drive belt or chain drive. Because of the very wide choice in wheel designs, the wheel and tire must be ordered separately.

756025 Fits 1991 thru 1999 Softail models

756026 Fits 2000 thru 2006 Softail models

756027 Fits 2007 to present Softail models

Note: 1991 thru 1993 models require the separate purchase of a late style countershaft 5th gear ZPN 237074

Individual parts

090470 Chrome belt guard

090478 11" wide raw steel rear fender

090476 Chrome fender struts with hardware

Optional parts

237074 Countershaft 5th gear (OEM 35626-94)



TON PELS SIGNATURE SERIES DELUXE SWINGARM KITS FOR 1991 THRU 1999 EVOLUTION SOFTTAILS, 2000 UP TWIN CAM SOFTTAILS AND ZODIAC WIDE-TAIL FRAMES

Smooth looking swingarm with hidden mount axle pockets. Kits are designed to fit stock style Softtail frames and Zodiac Wide-Tail frame and will accept up to 250 series rear tires on 8.00" or 8.50" wide rim. Kit bolts straight into the stock Softtail frame as well as our Wide-Tail frame, and you can still use a final belt drive. Stock Evolution Softtail must be converted to the latest 20 mm wide belt with pulleys but can also be converted to chain drive. All swing arm kits include a fully TIG welded curved swing arm with smooth looking hidden axle pockets, rear wheel axle, stainless steel fender extension plate, swing arm bearings, swingarm pivot spacer bushing were needed and the appropriate transmission off set kit with gaskets. All kits have TÜV approval. Extra wide fenders and Custom style fender struts can be found elsewhere in this catalogue.

Complete kits

- 722916** Smooth DeLuxe swingarm kit for 1991 thru 1999 Softtail and Wide-Tail frames, includes transmission offset kit (TÜV approved)
- 722925** Smooth DeLuxe swingarm kit for 2000 thru 2006 Twin Cam Softtail frames, includes transmission offset kit (TÜV approved)
- 722926** Smooth DeLuxe swingarm kit for 2007 and later Twin Cam Softtail frames, includes transmission offset kit (TÜV approved)

Replacement kit parts

- 722339** Swingarm only
- 741164** Pivot axle, spacer only, 236 mm
- 238763** Stainless steel fender extension plate
- 701949** 25 mm primary offset kit for Evolution models
- 700889** 25 mm primary offset kit for 2000 thru 2006 Twin Cam models
- 701950** 25 mm primary offset kit for 2007 up Twin Cams

Optional parts

- 236444** Fender struts raw steel for Evolution and Twin-Cam 2000 thru 2006 type frames
- 722799** Fender struts raw steel for Twin Cam 2007 and later type frames

Note: Extended 6 speed main shafts are also available for most 6 speed conversion kits. Ask your Zodiac dealer.



TON PELS SIGNATURE SERIES CURVED SWINGARM KITS FOR 1991 THRU 1999 EVOLUTION SOFTTAILS, 2000 UP TWIN CAM SOFTTAILS AND ZODIAC WIDE-TAIL FRAMES

Smooth curve swingarm with hidden mount axle pockets. Kits are designed to fit stock style Softtail frames and Zodiac Wide-Tail frame and will accept up to 250 series rear tires on 8.00" or 8.50" wide rim. Kit bolts straight into the stock Softtail frame as well as our Wide-Tail frame, and you can still use a final belt drive. Stock Evolution Softtail must be converted to the latest 20 mm wide belt with pulleys but can also be converted to chain drive. All swing arm kits include a fully TIG welded curved swing arm with smooth looking hidden axle pockets, rear wheel axle, stainless steel fender extension plate, swing arm bearings, swingarm pivot spacer bushing were needed and the appropriate transmission off set kit with gaskets. All kits have TÜV approval. Extra wide fenders and Custom style fender struts can be found elsewhere in this catalogue.

Complete kits

- 722917** Smooth Curved swingarm kit for 1991 thru 1999 Softtail and Wide-Tail frames, includes transmission offset kit (TÜV approved)
- 722918** Smooth Curved swingarm kit for 2000 thru 2006 Twin Cam Softtail frames, includes transmission offset kit (TÜV approved)
- 722919** Smooth Curved swingarm kit for 2007 and later Twin Cam Softtail frames, includes transmission offset kit (TÜV approved)

Replacement kit parts

- 722340** Swingarm only
- 741164** Pivot axle, spacer only, 236 mm
- 238763** Stainless steel fender extension plate
- 701949** 25 mm primary offset kit for Evolution models
- 700889** 25 mm primary offset kit for 2000 thru 2006 Twin Cam models
- 701950** 25 mm primary offset kit for 2007 up Twin Cams

Optional parts

- 236444** Fender struts raw steel for Evolution and Twin-Cam 2000 thru 2006 type frames
- 722799** Fender struts raw steel for Twin Cam 2007 and later type frames

Note: Extended 6 speed main shafts are also available for most 6 speed conversion kits. Ask your Zodiac dealer.



WIDE SWINGARM KITS FOR TWIN CAM SOFTAILS

Due to the construction of the engine and transmission set up of the Twin Cam Softail it is not possible to offset the transmission to make room for 200 or bigger tires. The Wide and Extra Wide swingarm kits enable you to mount up to 250 monster tires in your stock Softail. The Wide tire kit will accept 200 tires on a 6 1/2" rim using the stock belt. The Extra Wide swingarm takes 240 and 250 wide tires on an 8" or 8 1/2" wide rim with the stock belt. Kit contains a swingarm with wheel axle, a complete 12 or 25 mm primary offset kit with a primary spacer ring, crankshaft extension and extension nut, primary gasket kit, extended transmission main shaft and main drive gear, extended starter motor coupling and extended primary bolts. Our trick caliper bracket enables you to use the stock rear caliper. For 230 tires on a 15" steel rim a small modification of the OEM caliper may be needed, 15" cast or billet wheels require the use of a custom rear caliper and 10" disc brake rotor. Tabs for the belt guard are welded in place. Due to the variety of wheels, fenders, fender struts, and wheel spacers, these are not included. All of these can be found elsewhere in this catalog.

722080 Wide swingarm kit for Twin Cam Softail 2000-2006

722077 Extra Wide swingarm kit for Twin Cam Softail 2000 thru 2006

722915 Extra Wide swingarm kit for Twin Cam Softail 2007 to present

Individual parts

238986 Wide swingarm for up to 200 tires on 6 1/2" rim

238987 Extra Wide swingarm for up to 250 tires on 8 1/2" rim

700878 12 mm primary offset kit for 1994 thru 2006 5-Speed models

700889 25 mm primary offset kit for 1994 thru 2006 5-Speed models

701950 25 mm primary offset kit for 2007 to present 6-Speed models

238845 Rear wheel axle for Wide swingarm (380 mm long)

238856 Rear wheel axle for Extra Wide swingarm (400 mm long)



"WIDE-ASS" SWINGARM KIT DYNA 1991 THRU 2005

This comprehensive wide tire conversion kit enables you to mount a 200 wide rear tire on a 6.25" wide rim (tire then measures 220 mm) in the stock Dyna frame and still keep the stock 1 1/8" drive belt without trimming. If the wheel is slightly offset even 230 or 250 tires can be used. The kit contains everything you need, being a raw or black powder coated extra wide Swingarm, rear wheel axle, rear wheel axle adjusters, raw or powder coated fender struts that will take an up to 10 1/2" wide fender, extended upper shock mounting studs, a complete 25 mm primary offset kit with a primary spacer ring, extended crankshaft extension with extended crankshaft nut, extended transmission main shaft, extended main drive 5th gear with needle bearings and seal, extended belt pulley spacer, extended clutch push rod, starter jack extension, primary-to-transmission spacers and all required hardware to offset your primary, swing arm splash guard and spacers to offset the right hand side foot pegs and the exhaust. Also included are two different brake caliper brackets to allow the use either a 1991 thru 1999 or 2000-2005 stock or aftermarket rear brake caliper. The kit contains all parts for 1994-2005 models. When you want to use this kit on a 1991-1993 model you will have to order a late style final drive pulley, countershaft 5th gear and extended starter jack shaft screw separately. Wheel and fender are not included, we offer a wide variety of extra wide fenders, tires, rims and wheels for use with the wide swingarm, these can be found elsewhere in this catalog.

Fits 1991 thru 2005 Dyna models

236890 Complete kit with raw swingarm

236891 Complete kit with black powder coated Swingarm

Optional parts for use with 1991-1993 style transmissions

237074 Countershaft fifth gear

741165 Extended starter jack shaft screw 1/4" X 20 UNC

193009 Late style final drive pulley

Individual parts

238766 Raw swingarm with raw fender struts

238779 Black swingarm with fender struts

700889 25 mm offset primary kit

236892 Replacement shock stud kit **NEW**



SOFTAIL SWINGARM KIT FOR UP TO 300 TIRES

When the latest extreme wide tires were introduced everybody had a problem. How can one fit a 270, 280 or even 300 in a stock Softail frame? Simple, that's where Zodiac comes in. Zodiac's Ton Pels designed a complete extra wide swingarm kit that includes a "no jig needed" frame widening kit as well as the primary offset kit that allows the use of up to 300 tires in stock and most aftermarket frames. The frame widening is done with a 15 mm. thick offset banana shaped frame side plate. The banana shape side plate is welded in to place using the original banana plate as the welding jig. The location of the engine/transmission of the Evolution models in the frame has a 1/4" difference compared to the Twin Cam models. Therefore the offset in the frame plate, in combination with our 45 mm primary offset kit provides enough room for up-to 250 series rear tires in Evolution Softail frames, and 280 series rear tires in Twin Cam Softail frames. If the offset plate is used in conjunction with our 55 mm primary offset, the kit provides enough room for Avon's extreme wide 300 series tires in a 2000 thru 2006 Twin Cam Softail frame, or Metzeler 280 series rear tire in an Evolution Softail frame. The offset plate with 25 mm primary offset kit for 2007 to present models provides enough room to install a 280 series rear tire.

Note: the Evolution models will accept the 300 series tire if the wheel is slightly offset to the right side. The complete kit contains a swingarm, offset banana frame side

plate and a very complete primary offset kit. Primary offset kit for models thru 2006 includes primary spacer ring with support bearing, crankshaft extension, extension nut, primary gasket kit, extended main shaft, extended main drive gear, offset front pulley, extended starter motor coupler with extended bolt and all extended primary bolts with locking plates. Primary offset kits for 2007 to present contain a primary spacer ring without support bearing. The OEM brake caliper can be re-used, and tabs for the belt guard are welded in place. The kits for Evolution Softail must be used with a Twin Cam type 1 1/8" wide, 135 tooth final belt and a 70 tooth 1 1/8" wide pulley. When installing this kit in a 1991 thru 1993 model a late style countershaft 5th gear (ZPN 237074) must be ordered separately. Note: We strongly recommend a craftsman or certified welder does the welding of the side plate. When needed, Zodiac can arrange the welding for you. Just ask your Zodiac dealer.

Complete kits for 250 series rear tire

700942 For Evolution Softail 1991 thru 1999

Complete kits for 280 series rear tire

711919 For Twin Cam Softail 2007 to present **NEW**

700941 For Twin Cam Softail 2000-2006

700978 For Evolution Softail 1991 thru 1999

Complete kits for 300 series rear tire

700977 For Twin Cam Softail 2000-2006

Individual and optional parts

238689 135 Tooth narrow belt for use on Evolution Softail

191396 70 Tooth narrow belt pulley for use on Evolution Softail

237074 Late style countershaft 5th gear for use in 1991 thru 1993 models

700996 Swingarm and side plate only for Twin Cam Softail 2000-2006

700995 Swingarm and side plate only for Evolution Softail

700939 Rear axle, 3/4" diameter

238763 Stainless swingarm plate

700925 45 mm Primary offset kit for models thru 2006

701120 55 mm Primary offset kit for models thru 2006

701952 25 mm Primary offset kit with frame side plate for 2007 to present models **NEW**

339139 Softail axle adjusters chrome + 1/2"

Note: We designed a special 29 front, 65 rear pulley and belt combination to create extra belt clearance on extremely lowered bikes. Check this out in the rear belt and pulley section.



ZODIAC'S "SMART ASS" RIGHT SIDE DRIVE CONVERSION KITS

The almost unlimited growth of rear tire width has driven the Custom Bike Builders to the outer limits of offsetting primary drives in existing frames. Our 55 mm primary offset kit is really the limit of what is possible, extending the main shaft further will put too much torsion stress on the shaft, the 330 tire really needs a different approach. We strongly feel that instead of offsetting the primary to the extreme, it is better to leave the primary in the original position and move the final drive over to the right side. Zodiac developed a swing arm and transmission conversion kit that allows the use of a 300 or 330 wide rear tire in a stock Evolution or Twin Cam Softail frame. We offer two very cost-effective solutions, one with a RSD conversion kit, that re-uses as many stock parts as possible, and one with a RSD builder's kit. The RSD transmission conversion kit only includes the parts that are needed to convert your stock transmission into a RSD transmission. It includes parts such as: main shaft, counter shaft, shift drum, shift forks, etc. It also includes a new Billet trap door that gives room for the main drive gear. To avoid any "not wanted" load on the cast transmission housing, we have designed the trapdoor in such a way it is not only supported by the lower frame tube but also by the swing arm pivot. To make the internals of transmission stronger, the fifth gear countershaft has become an integrated part of the

countershaft. We have completed the kit with the required hardware, new seals and gaskets. Some builders may not want to use their old transmission gears, for those we have a complete builders kit available. Builder's kits have the gears and shafts installed on the trap door, and include all internal parts of the transmission. You can use these in your own or new transmission housing. All RSD conversion and builders kits use a special RSD clutch actuator/pulley cover, which is separately available. Clutch actuators are available in hydraulic or cable operated. The cable operated clutch actuator works with stock Big Twin clutch cable, the hydraulic operated clutch actuator requires an 11/16" bore master cylinder. We have OEM style and Custom Style clutch master cylinders available, check out our Handlebar Controls section. Kits for up to 300 series rear tire include RSD transmission conversion or builders kit, TIG welded swing arm, stainless steel swing arm splashguard, and rear wheel axle. Kits for up to 330 series rear tire also include an offset final drive front pulley, extended clutch pushrod and a spacer ring for the clutch actuator/pulley cover. For those that prefer to use a wide wheel with 1" bearing we have bearing sleeves ZPN 735416 and ZPN 735417 available. A raw steel RSD belt guard is available separately.

Smart Ass RSD big wheel conversion kits for Twin Cam Softail 2000-2006

300 series	330 series
701810	701800
With RSD transmission conversion	
701811	701801
With RSD transmission builders kit	

Smart Ass RSD big wheel conversion kits for Evolution Softail

Conversion kits fit 1994-1999 models, Builder's kits fit 1991-1999 models.

300 series	330 series
701830	701820
With RSD transmission conversion	
701831	701821
With RSD transmission builders kit	

Clutch actuator system (one of the two must be used!)

Available in your choice of cable or hydraulic operated.

720375 Pulley cover with cable operated clutch actuator

720374 Pulley cover with hydraulic operated clutch actuator

Note: The hydraulic operated clutch actuator requires an 11/16" bore master cylinder. These can be found elsewhere in this catalog.

Replacement kit parts

300 series	330 series
701804	701802
RSD Transmission conversion kit	
701806	701803
RSD Transmission builders kit	
722582	RSD Swing arm
722584	RSD Stainless Steel splash guard
722585	Rear wheel axle with nut

Optional parts

722577 RSD Frame support kit Evo 1989-1999

722578 RSD Frame support kit for Softail 2000-2006

735416 Pulley side bearing sleeve/spacer to use with PM wheels with 1" bearings

735417 Brake side bearing sleeve/spacer to use with PM wheels with 1" bearings

236175 RSD belt guard, raw steel

Note: Installation in Softail "Deuce" models requires some modification of the frame and swing arm.



TON PELS SIGNATURE SERIES CURVED RIGHT SIDE DRIVE SWINGARM KITS FOR EVOLUTION SOFTAIL AND 2000 THRU 2006 TWIN CAM SOFTAIL

Smooth curved swingarm with hidden mount axle pockets. Kits are designed to fit stock style Softail frames and will accept up to 330 series rear tires. Kit bolts straight into the stock Softail frame. All swing arm kits include a fully TIG welded curved swing arm with smooth looking hidden axle pockets, rear wheel axle, stainless steel fender extension plate, swing arm bearings, swingarm pivot spacer bushing were needed and the Right Side Drive transmission conversion kit for use in your transmission housing and a trick support to make a strong connection between the transmission trap door and the frame to take the load of your primary. Kits for up to 330 series rear tire also include an offset final drive front pulley, extended clutch pushrod and a spacer ring for the clutch actuator/pulley cover. For those that prefer to use a wide wheel with 1" bearing we have 1" shafts available (ZPN 722353). The RSD conversion kits use a special RSD clutch actuator/pulley cover, which are separately available in hydraulic or cable operated. The cable operated clutch actuator works with stock Big Twin clutch cable, the hydraulic operated clutch actuator requires an 11/16" bore master cylinder. We have OEM style and Custom Style clutch master cylinders available, check out our Handlebar Controls section. A raw steel RSD belt guard is available separately. All kits have TUV approval. Extra wide fenders and Custom Style fender struts can be found elsewhere in this catalog.

Smooth Curved RSD big wheel conversion kits for Twin Cam Softail thru 2006

722921 280/300 series

722922 330 series

Smooth Curved RSD big wheel conversion kits for 1994 thru 1999 Evolution Softail

Can also be used in 1991 thru 1994 models when installed with 1994-up style transmission gears.

722923 280/300 series

722924 330 series

Clutch actuator system (one of the two must be used!) Available in your choice of cable or hydraulic operated.

720375 Pulley cover with cable operated clutch actuator

720374 Pulley cover with hydraulic operated clutch actuator

Note: The hydraulic operated clutch actuator requires an 11/16" bore master cylinder. These can be found elsewhere in this catalog.

Replacement kit parts

280/300 series

330 series

701804

701802

RSD Transmission conversion kit

701806

701803

RSD Transmission builders kit

722356 Smooth curved RSD Swing arm

722584 RSD Stainless Steel splash guard

722585 Rear wheel axle with nut

722353 1" Rear axle

722577 RSD Frame support kit Evo 1989-1999

722578 RSD Frame support kit for Softail 2000 thru 2006

Optional parts

236175 RSD belt guard, raw steel

TON PELS
SIGNATURE



SINGLE-SIDED SWINGARM FOR SOFTAIL

This Single Sided swingarm is constructed from beefy, heavy gauge steel tubing and allows you to fit an up to 250 series rear tire on an 8.00 x 18 or 9.00 x 18 wheel. This swing arm fits a stock style Evolution Softail or Twin Cam Softail frame in conjunction with a 25 mm primary offset kit. For Evolution models you can use a 25 mm primary offset ring with crankshaft extension with nut and 25 mm offset transmission mounting plate or ZPN 700889 offset kit. Twin Cam Softails through 2006 also need ZPN 700889 primary offset kit that features an extended transmission main drive shaft and 25 mm extended main drive gear. 2007-up 6 Speed Twin Cam Softails use our latest ZPN 701950 offset kit. The swingarm kit includes a polished rear disc brake rotor, polished 4 piston PM brake caliper with bracket, polished 20 mm wide rear pulley and the stock type spherical swingarm bearings. The included trick caliper mounting bracket allows you to fit the caliper in down or upright position without the need of a separate brake torsion arm. The polished 20 mm rear pulley features hard anodized and Teflon coated teeth for X-tra long running time. You have to order a special swingarm pivot bushing when installing the swingarm in an Evolution Softail style frame. Due to the variety of applications the swingarm the primary offset kit and other required parts must be ordered separately. Kit needs to be used with 2007 type 20 mm rear belt.

Swingarm kits

701944 Swingarm kit for 1986 thru 1999 models

701945 Swingarm kit for 2000 to present models

Primary offset kits

701949 25 mm Offset kit for 1986 thru 1999 5-speed models

700889 25 mm Primary offset kit for 2000 thru 2006 5-speed models

701950 25 mm Primary offset kit for 2007 to present 6-speed models

Individual parts

722359 Single Sided swingarm only

701299 Single Sided Disc rotor

701940 Rear pulley Single Sided

236499 Fender struts thru 2006

730501 Fender struts 2007 to present

960015 11" Fender

Note: All parts in the offset kits are separately available.

Jon Vels
SIGNATURE

WHEELS FOR TON PELS' SIGNATURE SERIES SINGLE SIDED SWING ARM

These one-piece forged wheels are made by Rick's to bolt straight on to the Ton Pels' Signature Series single sided swing arm. Wheels feature a billet aluminum hub cap as the finishing touch. A high-end finish in every detail and carefully polished surfaces throughout every corner of the billet design are the trademark of Rick's wheels. Available in 3-spoke Mike, 5-spoke Rodder and 7-spoke Seven Sin design in 18" diameter and 9" wide for use with 240 or 250 wide rear tires.



18 x 9.00 Rick's One-Piece wheels
797230 Rodder



797231 Seven Sin



797232 Mike



BILLET ALUMINUM SINGLE-SIDED SWINGARM FOR SOFTAIL

A perfectly machined single-sided billet aluminum swingarm for those that want a little more than the average. This High-Tec swingarm is entirely CNC machined from billet aluminum and than mirror shine polished for a perfect finish. Swingarms are available for Twin Cam Softail for use with 200 wide rear tires. The brake caliper and disc are hidden between the rear pulley and the wheel. The bolt-on caliper mount accepts a 4 or 6 piston Billet brake caliper. Other calipers can be used if a custom bracket is made. The rear hub is designed for use with a Performance Machine wheel. Hub accepts other wheel makes if the correct adapter is made. Must be used with ZPN 741406 rear brake rotor. The 200 swingarm is designed for use with 12 mm offset kit (700878) and a 6.00" or 6.50" wide rim. Swingarm, brake caliper, offset kit, and wheel must be ordered separately.

Fits Twin Cam Softail 2000-2006

741403 200 Swingarm kit

Optional parts

700878 12 mm offset kit for 5-Speed transmission

710043 Billet 4 piston rear brake caliper

710049 Billet 6 piston rear brake caliper

741406 Disc brake rotor

METMACHEX ALUMINUM SWINGARMS

These reinforced aluminum swingarms not only improve the looks of your motorcycle, they also improve the road holding on long fast straight and fast corners. The design and construction guarantee a super rigid swingarm that will not twist or move under the most severe road conditions. Metmachex uses only the best qualities aluminum for these hand made, hand welded and hand polished swingarms. These swing-arms are the absolute ultimate for every high performance bike.



700584 Fits S1, M2 and S3 Buell models 1997 to present, does not fit Buell X1 models



700586 Fits FXR models 1987 thru 1994



701082 Fits V-Rod models 2002 to present, takes up to 260 series rear tire, requires the use of an offset front pulley **NEW**



700585 Fits Dyna models 1995 thru 1999



700587 Fits Sportster models 1987 thru 2003



CHROME PLATED STOCK REPLACEMENT SWING-ARM

099018 Completely chrome plated swing-arm for all chain drive Harley Big Twins 1973 thru 1983 with "banana" type caliper. This deep blue chrome plated swing-arm is not just a copy of the OEM swingarm, but improved and reinforced in the right places. All mounting brackets and tabs for mounting the chain guard, brake support and shock absorbers are precisely located for a perfect fit (OEM 47500-73 and 47500-78).



RICK'S POLISHED ALUMINUM SWINGARM FOR V-ROD

A custom highlight made by Rick's, this CNC machined and TÜV approved polished aluminum swingarm for V-Rod. All pieces are made out of high quality aluminum and shaped on CNC milling machines. To complete the design, the rear axle, as well as the swingarm axle are hidden by aluminum covers. Available for wheels up to 12.5" wide, without a compromise to keep the durability of the belt. The swingarm is just designed to keep the stock width of belt. All necessary spacers and screws for swingarm, rear shocks and front pulley cover are included. A matching size offset front pulley must be ordered separately.

741189 For up to 250 tire on 9" rim

741339 For up to 280 tire on 10.5" rim

741342 For up to 300 tire on 11.5" rim

741468 For up to 330 tire on 12.5" rim

NEW



OFF-SET DRIVE PULLEYS FOR V-ROD

These Rick's off-set drive pulleys are for use on V-Rod models when converting to wider than stock wheels. Must be used in conjunction with matching off-set parts for the wheel and rear pulley to keep the drive belt in line. Fits VRSCA V-Rod models 2002 thru 2003. Available in 30 tooth only, with an off-set of 8, 28, 33, 38 or 42 mm.

Off-set drive pulleys for V-Rod

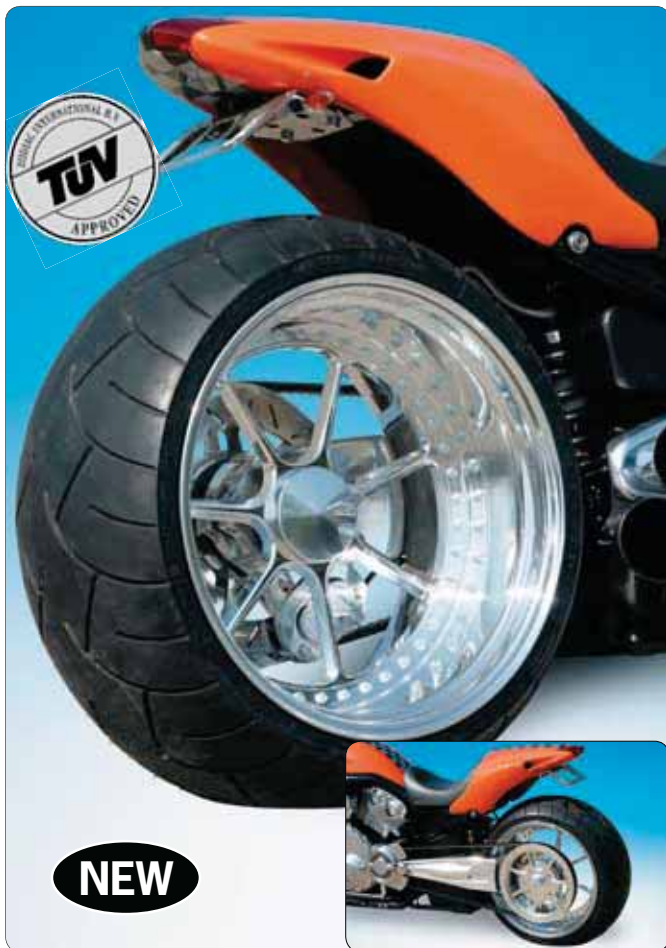
741220 8 mm Off-set

741218 28 mm Off-set

741219 33 mm Off-set

741223 38 mm Off-set

741224 42 mm Off-set



RICK'S V-ROD MONO SWING ARM CONVERSION KIT

This single sided swingarm drastically changes the looks of your V-Rod. It is a thorough design, precision made from high quality solid billet aluminum on a CNC milling center and fits all V-Rod models. As with Rick's dual beam extra wide V-Rod swing arms, this Mono swing arm kit is available in different sizes. It is not "just a swing arm", but a complete kit that includes everything needed to convert your V-Rod into an one-armed, great looking custom. Because of the wide choice in wheel, brake rotor and pulley designs these, as well as the tire of the size and make you like must be ordered separately.

Swing arm kits are available as:

Extra Large for use with 280 tire on a 10.5"x18" Rick's 3-piece wheel, has 42 mm offset

Extra-Extra Large for use with 300 tire on a 11.5x18" Rick's 3-piece wheel, has 55 mm offset

The complete kit is a high-end, High-Tech product and includes:

- New, bigger gas tank
- Rick's 4-piston Drive Side Brake calipers
- Mono Shock Absorber, adjustable
- Excentric wheel adjuster/belt tensioning system
- Special Gates drive belt
- Offset front pulley
- Bearing support plate
- All required hardware
- Detailed fitting instructions

Rick's Mono Swing arm conversion kit for V-Rod is TÜV approved when used in conjunction with Rick's 3-piece wheels. The use of any other make wheels will not just make installation much more complicated, but will also void the TÜV approval. Rick's 3-piece wheels, 72 tooth pulleys and 11 1/2" disc brake rotors must be ordered separately and can be found in Chapter 11.

741397 Mono Swingarm kit for use with 280 tire on a 10.5"x18" Rick's wheel

741398 Mono Swingarm kit for use with 300 tire on a 11.5"x18" Rick's wheel



SPUTHE POSITRAC CHASSIS STABILIZER FOR DYNA

Sputhe's PosiTrac Dyna Chassis Stabilizer provides lateral positioning of the drive train on all 1991 to present Dyna's. Sputhe claims that the PosiTrac totally eliminates lateral Isolator flex that causes swing arm deflection. The result: high speed directional and cornering stability is drastically improved under all conditions. Additionally, safety, comfort and tire life are all increased. The PosiTrac consists of front and rear stabilizer links and brackets. These provide absolute lateral positioning of the drive train and swing arm assembly relative to the frame. The front and rear stabilizers combined with the existing top stabilizer link establish a plane that maintains precise alignment of the steering head and rear axle under all conditions. The PosiTrac Dyna Chassis Stabilizer does not increase vibration, has a quick and easy bolt on installation, does not require any frame modification and does not reduce ground clearance. Fits all Dyna models 1991 to present.

231859 Sputhe PosiTrac Dyna Chassis Stabilizer



SWINGARM BUMPER RUBBER FOR SOFTAILS

This bumper rubber prevents that the swingarm touches the frame when your shocks give up. Fits all Softtail models 1986 thru 1999 but is also suitable for most aftermarket Softtail style frames. Bumper rubber comes with an inserted 1/4" UNC stud for easy fitting. Sold each (OEM 11451).

358208 Swingarm Bumper Rubber



CCCS IMPROVED STABILIZER AND COOLING FOR TOURING MODELS

Stabilize your HD touring bike and improve cooling! This Custom Cycle Control Systems stabilizer/oil pan kit will improve your motorcycle performance as the swing arm movement is eliminated by triangulating motor and transmission to the frame. The billet aluminum 6061T-6 CNC machined oil pan with built in stabilizer is available in a clear or black anodized finish. The extra fins and approximately 1/2 quart more capacity will improve your oil temperature drastically over other stabilizing systems. All stainless steel hardware is included. Fits 1999 thru 2008 HD Touring models.

734408 Fits 1999 thru 2008 FLH and FLT models, Clear anodized

734409 Fits 1999 thru 2008 FLH and FLT models, Black anodized



SWINGARM BEARINGS

Swingarm bearings for Softail models. Available for Evolution and Twin Cam Softails.

782023 Swingarm bearing with circlip, each, Evolution Softail 1984-1999 (OEM 9076)

231759 Swingarm bearing, each, Twin Cam Models 2000 to present (OEM 9270A)



TWIN CAM MOTOR MOUNT ADAPTOR FOR EVOLUTION FRAMES

This adaptor kit is designed with the Custom Bike Builder in mind. It allows to use a Twin Cam "A" engine, as used in Dyna Glide and FLH/FLT models, in conjunction with a 1985 thru 1999 Softail transmission, in most frames that are originally made for an Evolution Big Twin, such as our Wide Tail, and Super Ass frames. There is very little grinding on the engine cases required to allow for wrench clearance. The adapter plate is precision machined from a solid block of billet aluminum for strength and true Custom Style. Kit comes complete with all necessary hardware as well as comprehensive fitting instructions.

236889 Twin Cam motor mount adaptor



FXR SWINGARM MOUNTS

Black painted forged steel OEM type swingarm mounts for 1982 thru 1994 FXR models and our Pro-Street frame. Sold each.

237278 Swingarm mount, right (OEM 47826-81)

237281 Swingarm mount, left



FXR SWINGARM MOUNTING KIT

Complete swingarm bushing kit for FXR style Swingarm as used on 1982 up FXR models, 1980 to present FLT models as well as Arlen Ness swingarms for FXR models. Kit contains 2 bushing assemblies, 2 washer/retaining ring assemblies and 2 rubbers. All parts are separately available.

237279 Swingarm mounting kit complete (includes 2 of each part number listed below)

Replacement parts, sold each

237275 Bushing assembly (OEM 47556-81)

237276 Washer/retaining ring assembly (OEM 47510-80 & 47511-80 & 47513-80)

237277 Mount rubber (OEM 47564-86)



STAINLESS STEEL SWINGARM PIVOT BOLTS FOR SOFTAILS

These stainless steel swingarm pivot bolts fit all Softail models 1984 to present as well as most aftermarket frames and swingarms. Sold in sets of 2 and come complete with washers. Available in a machined and highly polished finish (OEM 4961).

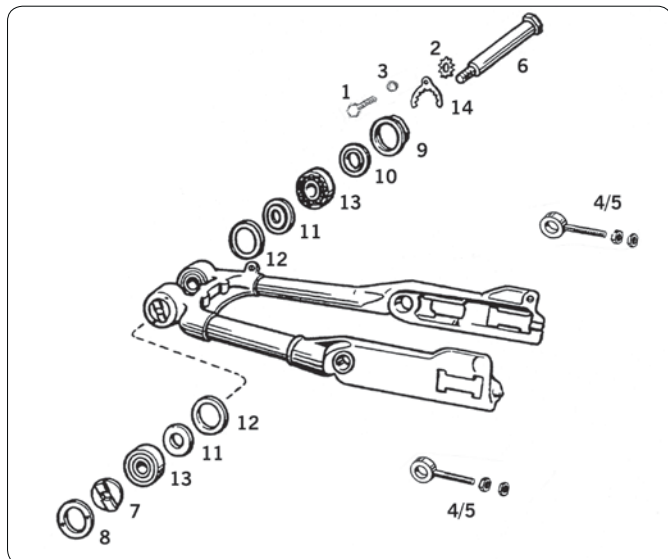
237979 Machined finish

237779 Polished finish



FRONT MOTOR MOUNT FOR 5 SPEED MODELS

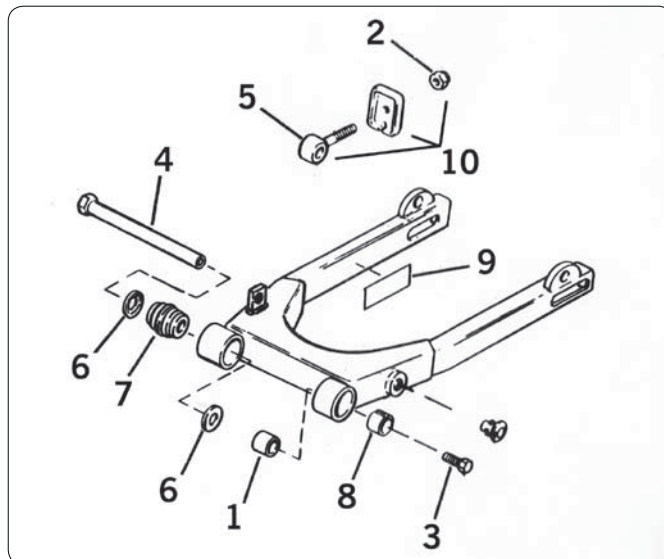
032360 Replacement front motor mount for all rubber mounted 5 Speed Harley models 1980 to present (except Dyna Glide) (OEM 16207-79B).



SWINGARM PARTS FOR 1954-1981 SPORTSTER

Pos.	ZPN	Qty.	Description	OEM
1	723063	1*	Screw, bearing lock nut late 1972-1981	(1198)
2	723065	1*	Lock washer pivot shaft, late 1972 thru 1981	(7022)
3	723064	1*	Washer lock tab screw, late 1972 thru 1981	(7069)
4	339900	1	Axle adjuster kit, 1979 thru 1981	(41530-84T)
5	339002	1	Axle adjuster kit, 1952 thru 1978	(41531-84T)
6	723062	1	Pivot shaft, 1954 thru 1981	(47511-52)
7	723074	1	Pivot shaft nut, late 1974 thru 1981	(47512-74)
8	723075	1*	Left bearing lock nut, 1954 thru early 1974	(47514-52)
8	723076	1	Left bearing lock nut, late 1974 thru 1981	(47514-74)
9	723067	1*	Right bearing lock nut, 1954 thru early 1974	(47515-52)
9	723068	1*	Right bearing lock nut, late 1974 thru 1981	(47515-74)
10	723069	1	Outer bearing spacer, 1954 thru early 1974	(47517-52)
10	723070	1*	Outer bearing spacer, late 1974 thru 1981	(47517-74)
11	723073	1*	Inner bearing spacer	(47518-52)
12	231755	2	Dust cap	(47519-52)
13	723071	2	Bearing, 1954 thru early 1974	(47521-52)
13	723072	2	Bearing, late 1974 thru 1981	(47521-74)
14	723066	1*	Lock plate bearing lock nut late 1972 thru 1981	(47525-52)

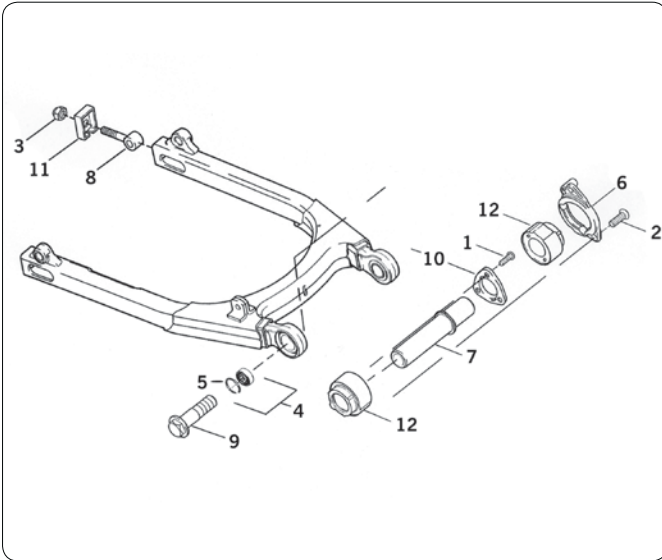
* Parts sold to dealers in 5- or 10-packs



SWINGARM PARTS FOR 1982 THRU 2003 SPORTSTER

Pos.	ZPN	Qty.	Description	OEM
1	723082	1	Pivot shaft spacer	(5741)
2	723088	2*	Axle adjuster nut	(7778)
3	723084	1	Pivot shaft screw, 1986 thru 1988	(2892A)
3	723085	1*	Pivot shaft screw, 1989 thru 2003	(2925A)
4	723079	1	Pivot shaft, 2001 thru 2003	(41568-81B)
4	723077	1	Pivot shaft, 1986 thru 1988	(41568-86)
4	723078	1	Pivot shaft, 1989 thru 2000	(41568-89)
5	723005	2	Axle adjuster, 1997 thru 2003	(41573-97)
6	723080	2	Bearing dust shield 1982 thru 1997	(41579-81)
7	723042	1	Bearing, right, 1982 thru 1999	(47082-81)
7	723081	1	Bearing, right, 2000 thru 2003	(48367-98)
8	723083	1	Bushing, left	(47083-81A)
9	723086	1	Protective pad	(53487-87)
10	339900	1	Axle adjuster kit, 1982 thru 1996	

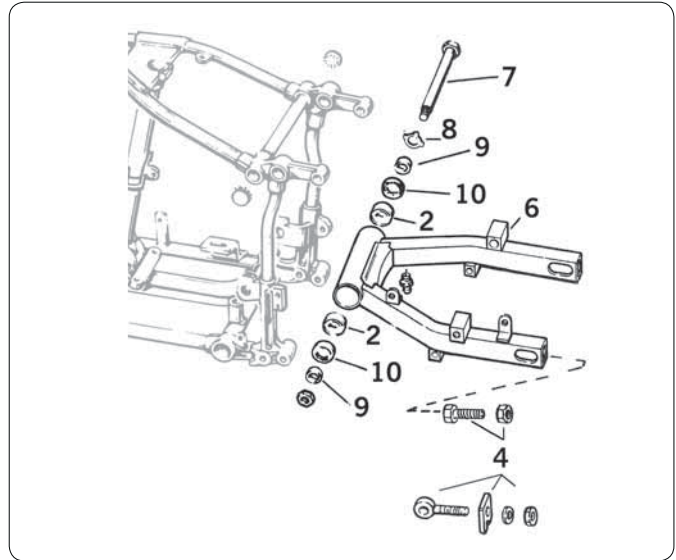
* Parts sold to dealers in 5- or 10-packs



SWINGARM PARTS FOR 2004 TO PRESENT SPORTSTER

Pos.	ZPN	Qty.	Description	OEM
1	723096	1*	Lock plate bolt, 20 pack	(940)
2	723099	1*	Isolator mount bolt	(4290)
3	723089	2	Axle adjuster nut, 2005 to present	(7766)
3	723088	2*	Axle adjuster lock nut, 2004	(7778)
4	723093	2	Bearing with clip	(9209)
5	723032	2	Bearing clip	(11282)
6	723098	1	Isolator mount	(16291-04)
7	723094	1	Pivot shaft	(41568-04)
8	723090	2	Axle adjuster, 2005 to present	(41573-05)
8	723005	2	Axle adjuster, 2004	(41573-97)
9	723092	1	Pivot bolt	(41698-04)
10	723095	1	Pivot shaft lock plate	(41699-04)
11	723091	2*	Adjuster cap	(47554-73A)
12	723097	1	Rear motor mount isolator	(48492-04)
13	723087	1*	Axle adjuster protection cap	(89579-91)

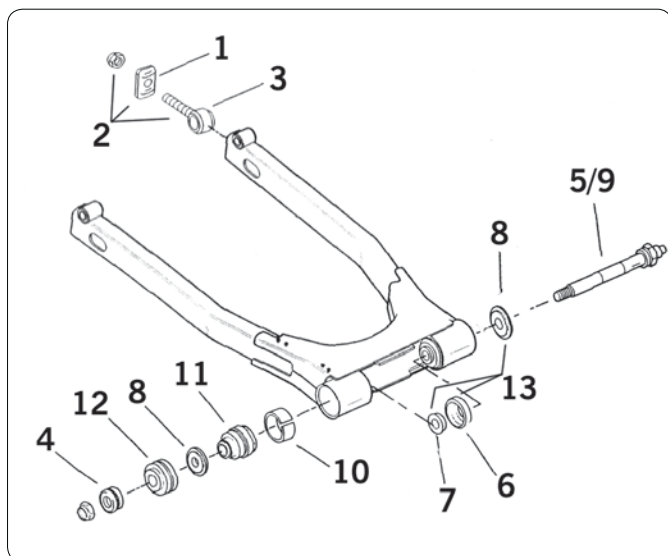
* Parts sold to dealers in 5- or 10-packs



SWINGARM PARTS FOR 1958 THRU 1986 4-SPEED BIG TWIN MODELS EXCEPT SOFTAIL

Pos.	ZPN	Qty.	Description	OEM
1	099025	2	Nut, chrome	(7813, 7980)
1	723022	2*	Nut, 5/8-18 UNF, zinc	(7813, 7980)
2	231440	2	Bearing, 1979 thru 1984	(9052)
3	099033	2*	Brake line clip	(38712-68)
4	339900	1	Axle adjuster kit, 1973 thru 1986	(41530-84T)
4	339003	1	Axle adjuster kit, 1958 thru 1972	(41575-36)
5	144032	1	Brake anchor arm, Chrome 1973 thru 1980	(44154-73)
6	099018	1	Chrome swingarm, 1973 thru 1984	(47500-73)
7	099023	1	Swingarm pivot bolt	(47510-58)
8	099024	1*	Lock washer pivot bolt, 1979 thru 1984	(47513-58)
9	231853	2	Spacer, 1979 thru 1984	(47517-58)
10	022340	2	Pivot bearing seal, 1973 thru 1984	(47519-72)
10	742476	2*	Pivot bearing seal, 1973 thru 1984, James 2-pack	(47519-72)
	NEW			
10	022401	2	Pivot bearing seal, 1958 thru 1972	(47519-58, 47519-83A)
10	742475	2	Pivot bearing seal, 1958 thru 1972, James 2-pack	(47519-58, 47519-83A)
	NEW			

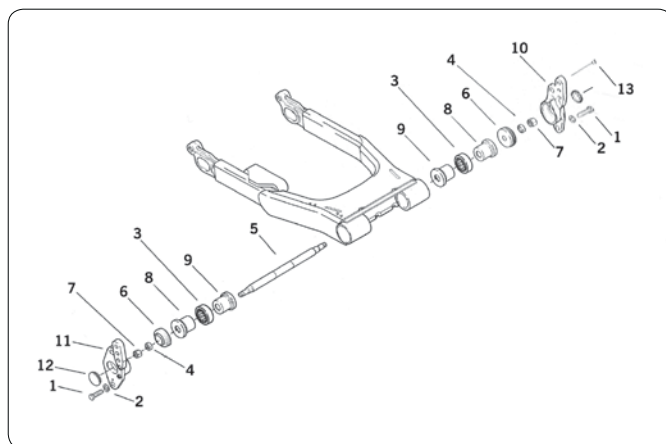
* Parts sold to dealers in 2-, 5- or 10-packs



SWINGARM PARTS FOR 1980 THRU 2001 FLH/FLT SERIES MODELS

Pos.	ZPN	Qty.	Description	OEM
1	723006	2*	Axle adjuster cap	(41112-79)
2	339900	1	Axle adjuster kit, 1980 thru 1983	(41530-84T)
3	723005	2	Axle adjuster, 1997 thru 2001	(41573-97)
4	723004	1*	Cup washer, 1989 thru 2001	(47491-89)
5	723000	1	Pivot shaft kit, 1986 thru 2001	(47492-89A)
6	237322	2	Retaining ring, 1986 thru 2001	(47510-80)
7	237323	2	Inner spacer, 1986 thru 2001	(47511-80)
8	237321	2	Nylon washer, 1986 thru 2001	(47513-80)
9	723000	1	Pivot shaft, 1982 thru 1985	(47515-82A)
10	723003	2*	Bushing tolerance ring, 1986 thru 2001	(47538-79)
11	237275	2	Bushing and tolerance ring, 1986-2001	(47556-81)
12	723002	2	Outer rubber, 1980 thru 1985	(47564-82)
12	237277	2	Outer rubber, 1986 thru 2001	(47564-86)
13	237276	2	Bearing kit, 1 each of pos. 6, 7 and 8	

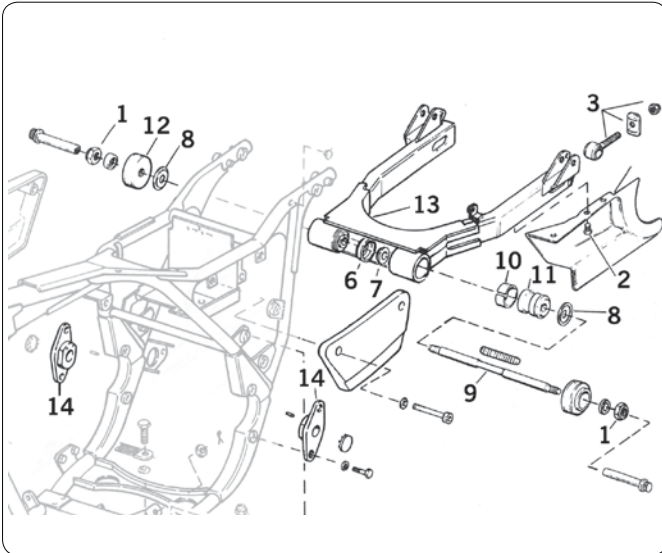
* Parts sold to dealers in 5- or 10-packs



SWINGARM PARTS FOR 2002 TO PRESENT FLH & FLT SERIES MODELS

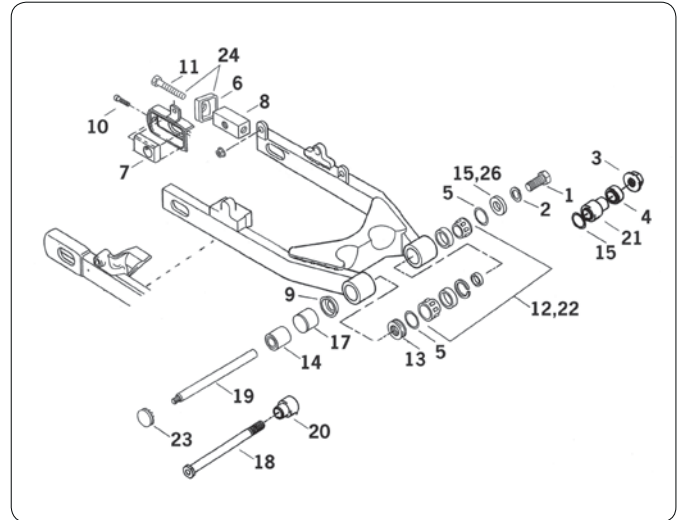
Pos.	ZPN	Qty.	Description	OEM
1	742244	4*	Screw	(OEM 4752)
2	723012	4*	Lock washer	(OEM 7039)
3	723018	2	Bearing	(OEM 9208)
4	723016	2	Washer	(OEM 47491-02)
5	723020	1	Pivot shaft	(OEM 47505-02)
6	237277	2	Outer rubber	(OEM 47564-86A)
7	723015	2*	Nut	(OEM 47606-02)
8	723017	2	Outer spacer	(OEM 48487-02)
9	723019	2	Inner spacer	(OEM 48489-02)
10	723014	1	Left mount	(OEM 50588-93)
11	723013	1	Right mount	(OEM 50589-93)
12	723011	2*	Chrome plug	(OEM 67865-89)
13	723021	2*	Hole plug	(OEM 90493-83)

* Parts sold to dealers in 5- or 10-packs


SWINGARM PARTS FOR 1982 THRU 1994 FXR'S

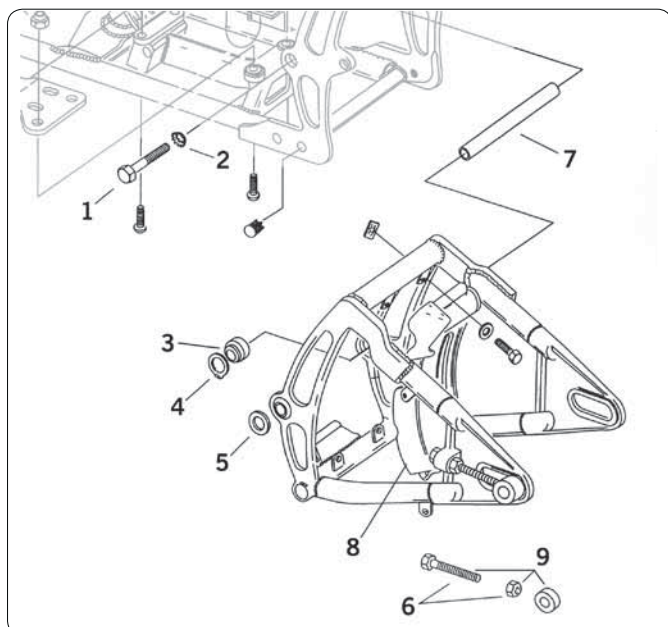
Pos.	ZPN	Qty.	Description	OEM
1	723007	1*	Lock nut pivot shaft, 1982 thru early 1984	(7825)
1	723008	1*	Lock nut pivot shaft, late 1984 thru 1985	(7828)
2	723010	1	Screw	(2757W)
3	339900	1	Axle adjuster kit	(41530-84T)
4	723004	1*	Cup washer, 1989 thru 1994	(47491-89)
5	723001	1	Pivot shaft kit, 1986 thru 1994	(47492-89A)
6	237322	2	Retaining ring plastic	(47510-80)
7	237323	2	Inner spacer	(47511-80)
8	237321	2	Nylon washer	(47513-80)
9	723000	1	Pivot shaft, 1982 thru 1985	(47515-82A)
10	723003	2*	Inner bushing tolerance ring	(47538-79)
11	237275	2	Bushing ass with tol. Ring	(47556-81)
12	723002	2	Outer swingarm rubber, 1982 thru 1985	(47564-82)
12	237277	2	Outer swingarm rubber, 1986 thru 1994	(47564-86)
13	234763	1	Swingarm, raw steel	(47820-81A)
14	237281	1	Swingarm mount, left	(47825-81)
14	237278	1	Swingarm mount, right	(47826-81)
15	723009	1	Debris deflector	(60397-85A)
16	237276	2	Swingarm bearing kit, 1 each of pos. 3, 4 and 5	

* Parts sold to dealers in 5- or 10-packs


SWINGARM PARTS FOR 1991 TO PRESENT DYNA

Pos.	ZPN	OEM	Qty.	Description
1	723054	4770	1	Bolt, 2000-2005
2	723012	7039	1	Lock washer, 2000-2005
3	723040	7734W	1	Nut, flanged castle 1991-1999
4	723018	9208	1*	Bearing pivot, 2006-up
5	022458	11139	2*	O-ring, 1991-2005
6	723050	41113-90	2	Plate, 1991 thru 2005
7	723061	41571-06	2	Adjuster block 2006-up
8	723051	41571-92	2	Adjuster block, 1992-2005
9	723044	41585-90	1	Dust shield, 1991-up
10	723060	45991-06	2*	Adjuster bolt, 2006-up
11	723049	45991-92	2	Adjuster bolt, 1991-2005
12	723042	47082-81	1	Bearing assy, 1991 thru 2005
13	723043	47496-90	1	Spacer, left, 1991-2005
14	723046	47499-90	1	Spacer, right, 1991-2005
15	723053	47565-00	1	Washer, 2000-2005
16	723041	47565-90	1	Washer, 1991-1999
17	723045	47624-90	1	Bushing, 1991-up
18	723057	47641-06	1	Pivot shaft, 2006-up
19	723052	47817-00	1	Pivot shaft, 2000-2005
19	723047	47817-90	1	Pivot shaft, 1991-1999
20	723058	47841-06	1	Spacer, right, 2006-up
21	723059	47844-06	1	Spacer, left, 2006-up
22	723081	48367-98	1	Bearing assy, 2003-2005
23	723048	67859-90	1	Plug, 1991-2005
23	723056	68222-06	1*	Plug, 2006-up
24	741819	-	1	Wheel adjuster kit, 1991-2005

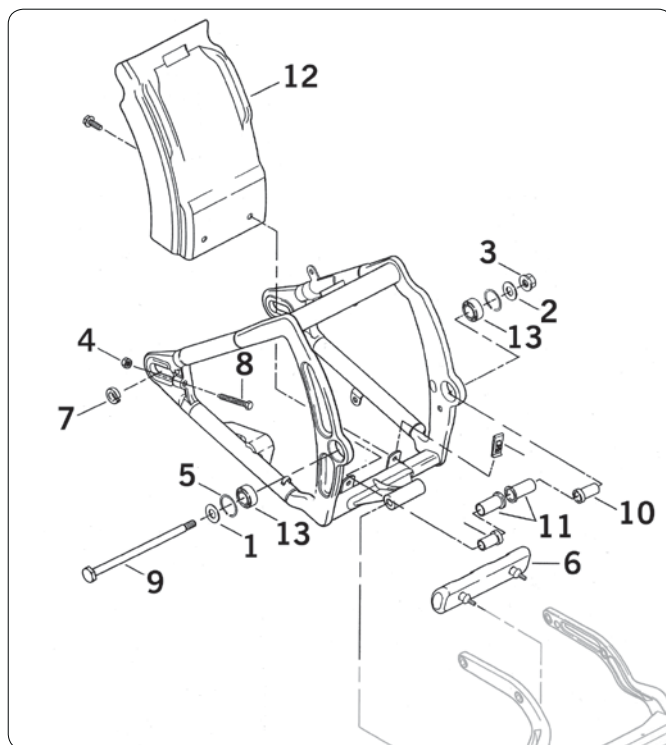
* Parts sold to dealers in 5- or 10-packs



SWINGARM PARTS FOR 1984 THRU 1999 SOFTAILS

Pos.	ZPN	Qty.	Description	OEM
1	237979	1	Pivot bolt set with washers, stainless (4961)	
1	237779	1	Pivot bolt set with washers, polished stainless (4961)	
2	723026	2*	Lock washer, pivot bolt (7142)	
3	782023	2	Swingarm bearing with clip (pos. 4) (9076)	
4	723024	2*	Bearing retaining clip (11158)	
5	723025	2	Swingarm pivot spacer, 1986 thru 1999 (43283-86)	
6	741816	1	Axle adjuster kit, chrome, 1986 thru 1992 (47579-86)	
6	741817	1	Axle adjuster kit, chrome, 1993 thru 1999 (47579-93)	
7	723023	1	Axis tube, 1989 thru 1999 (48031-89A)	
8	232891	1	Rear fender extension, 1986 thru 1999 (60363-86C)	
9	339107	1	Axle adjuster kit with spacers, chrome, 1986 thru 1992	

* Parts sold to dealers in 5- or 10-packs



SWINGARM PARTS FOR 2000 TO PRESENT SOFTAILS

Pos.	ZPN	Qty.	Description	OEM
1	723031	1*	Washer, right, 4 pack (6534)	
2	723033	1*	Washer, left, 4 pack (6535)	
3	723034	1*	Flange nut (7479)	
4	723029	2*	Adjuster nut (7783)	
5	723032	2	Bearing clip (11282)	
6	723037	1	Bumper rubber, except Deuce (11514)	
6	723039	1	Bumper rubber FXSTD Deuce (11565)	
7	723028	2	Spacer (47577-00)	
8	723038	2*	Axle adjuster (47579-00)	
9	723030	1	Pivot shaft (47610-00)	
10	723035	2	Bushing (48048-00)	
11	723036	2	Spacer (48049-00)	
12	723027	1	Rear fender extension (60363-00)	
13	231759	2	Bearing (9270A)	
14	741818	1	Axle adjuster kit, chrome	

* Parts sold to dealers in 5- or 10-packs



**SPRING
ANCHOR
PLATE FOR
KICKSTAND**

291229 Chrome plated anchor plate, fits all 4 Speed Big Twins 1936 thru 1986 and all Softail models 1984 thru 1990 (OEM 50036-36 & 50028-74T).



BILLET SWINGARM END CAPS

Billet aluminum swingarm end caps for rectangular swingarms. Machined to exact specifications for a perfect fit and polished to a mirror shine finish. Available for 1973 thru 1984 4 Speed and Softail swingarms and 1991 to present Dyna Glide swingarms. Sold in pairs.

234077 Swingarm end caps for 4 Speed swingarm

234076 Swingarm end caps for Dyna Glides



**ONE PIECE
KICKSTAND/
SPRING-PLATE
BRACKET**

291267 Beautiful chrome finished combination of mounting bracket and spring-plate. Provides a simple and clean look. Fits all 4 Speed Big Twin models 1936 thru 1986 (OEM 50014-74 & 50028-74A).



**KICKSTAND
STOP**

291227 Fits all 4 Speed Big Twins 1936-1986, Softail models 1980 to present and FL(H)T 1980 to present. Chrome finish (OEM 50094-36 & 50015-74).



**PRO-ONE
KICKSTAND
ANGLE
PLATE**

You have finally lowered your bike and now the kickstand is almost useless. Our Angle Plate cures this problem on lowered bikes by changing the angle five degrees to reposition it to the proper angle. Fits all 4 Speed Big Twins 1936 thru 1984 and all Softails 1984 to present.

236063 Kickstand angle plate



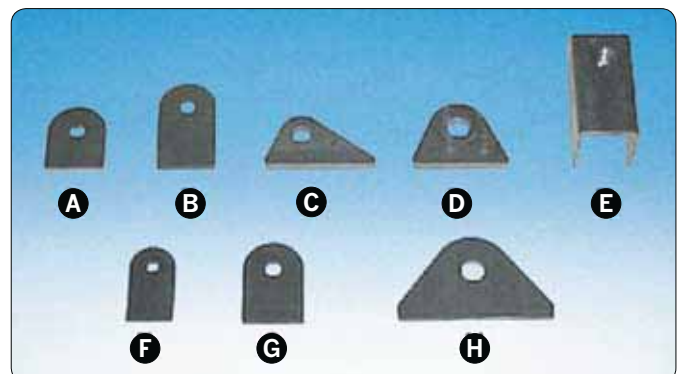
**KICKSTAND
BRACKET**

291225 Chrome plated, reinforced kickstand bracket fits all Big Twins 1936 thru 1986 (OEM 50049-36, 50014-74 & 50049-58).

CHASSIS WELD-ON TABS

For the custom builder Zodiac now offers a wide range of weld-on tabs for mounting various parts and accessories such as Horns, coils, brake rods etc. Tabs are laser cut, tab 740064 is threaded with 3/8 UNC.

	Tab	Hole diam.	Thickness	Height
740060	A	1/4"	1/8"	3/4"
740061	B	1/4"	1/8"	1 1/4"
740062	C	5/16"	3/16"	5/8"
740063	D	3/8"	3/16"	3/4"
740064	E	3/8" x 16 threaded	1/8"	1 3/8"
740065	F	3/8"	1/8"	7/8"
740066	G	3/16"	1/8"	1"
740067	H	1/4"	1/8"	1"





ADJUSTABLE KICKSTAND STOP

Beautifully show chromed kickstand leg stop. Equipped with a nylon headed adjustable stopper bolt. Installs on the kickstand shaft and keeps the kickstand aligned with the primary just before it hits the primary. A must when using open belt drives. Fits all 4 Speed models 1958 thru 1984 and Softail models 1989 to present (OEM 50015-74).

291241 Adjustable kickstand stop



KICKSTAND FOR SOFTAIL AND BIG TWIN

055020 Direct replacement kickstand for all 4 Speed Big Twins 1936 thru 1986 and Softails 1984 thru 1988. Show-chrome finish (OEM 50061-36E).



KICKSTAND FOR SOFTAIL

Chrome plated, stock style kickstand legs. Available in stock length, as well as in a 1" shortened version for use on lowered bikes. Fits Evolution Softail models 1989 thru 1999, and Twin Cam Softail models 2000 to present.

055058 Stock length

055059 1" shortened



KICKSTAND FOR BIG TWINS +4-6"

055021 Custom style kickstand with show-chrome finish. Fits all 4 Speed Big Twin and Softail models 1936 thru 1988 with 4 to 6" over stock fork tubes.



CUSTOM KICKSTAND FOR HARLEY SPORTSTER

Chrome plated reinforced kickstands for XL models 1957 thru early 1984. Available in stock and overstock length for use with overstock front fork.

055018 Side stand stock length (OEM 50063-59A & 50006-77A)

055019 Side stand for use 4-6" over stock front forks



FXST RE-LOCATE CUSTOM KICKSTAND KITS

Takes a little bit more to fit than an "ordinary" bolt-on accessory, as you have to drill and tap two holes. But after this you will have that real special look and easy-to-use rear mounted kickstand. Kit includes XL-style kickstand, custom bracket, bolts and spring. All parts have a chrome plated finish. Available in stock length, as well as a shorter version for use on lowered bikes.

291304 Custom kickstand kit

055050 Custom kickstand kit for lowered bikes



CHROME PLATED REPLACEMENT KICKSTAND

Stock style replacement kickstands for late models. These kickstands are forged from high grade quality steel and have a mirror shine show-chrome finish. Available for FXR, FXST and FLT models.

055028 Fits FXRT, FXRS and FXRS-SP models 1986 thru 1990 (OEM 50069-86)



055030 Fits all Softail models 1989 to present (OEM 50087-89A)



055029 Fits all FLT models 1991 to present (OEM 50075-91)



KICKSTAND FOR FXR MODELS

291268 Zodiac's kickstands are made from high grade quality steel. This model fits 1982 thru 1989 FXR(S). Chrome finish (OEM 50031-84A).



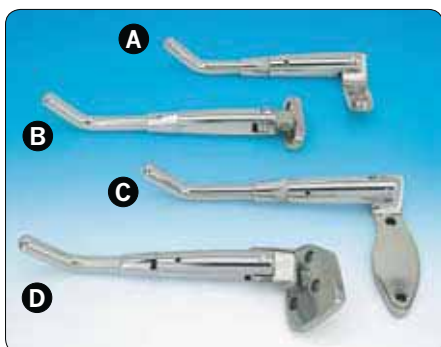
CUSTOM WELD-ON KICKSTANDS

These kick-stands feature an internal spring and lock mechanism to provide a clean custom look. Kickstands have a flawless chrome finish, the mild steel weld-on bracket comes unfinished, allowing the custom bike builder to put it just where he wants it. Available with brackets for 1 1/8", 1 1/4" and 1 1/2" frame tubes.

055070 Fits 1 1/8" frame tubes

055071 Fits 1 1/4" frame tubes

055072 Fits 1 1/2" frame tubes



SHOW CHROMED ADJUSTABLE KICKSTANDS

These show chromed kickstands do more than just hold up the bike. They are adjustable length in length and feature a Heavy-duty internal return springs hold the stand in up or down position. Frame brackets are made out of stainless steel with a mirror shine polished finish. These high tech kickstands fits stock and custom Softail models. Easy bolt-on construction with included hardware.

A. 055092 Fits 1988 thru 1999
Softail rear mount
models

B.055093 Fits 2000 thru 2005
Softail rear mount
models

C.055094 Fits all FXR models

D.055095 Fits 1988 thru 1999
Softail front mount
models



KICKSTAND EXTENSIONS

Beautiful show chromed kickstand extensions for all models 1984 to present. These extensions are a necessity for motorcycles with a wide tire conversion. Because of the primary offset, the stock kickstand will disappear under the primary and very hard to reach, no longer with these extensions.

291253 Kickstand extension for
1984 to present Sportster
models

291255 Kickstand extension for
1984 to present Big Twin
models



CHROME KICKSTAND EXTENSION

This chrome kickstand extension makes it a lot easier to find your jiffy when an offset primary hides it. Fits all 1984 to present FLH/FLT series models and 1986 to present Softails, except 2005 to present FLSTN models.

291259 Chrome kickstand extension



KICKSTAND SPRINGS

Chrome plated kickstand return springs, available for most models 1936 to present.

291111 Fits all Big Twins 1936
thru 1987 (except 1985
thru 1987 Softails), and
all Sportster models thru
early 1984
(OEM 50011-30TA)

290265 Fits 1985 to present Softail
models, FLH and FLT models
1991 to present, and
Sportster models 1991 to
present (OEM 50005-85A)



KICKSTAND KITS FOR SOFTAIL

Complete stock style kickstand kits. Available in stock length, as well as in a 1" shortened version for use on lowered bikes. Both kits have a show chrome finish. Fits Evolution Softail models 1989 thru 1999.

055056 Stock length

055060 1" shortened



WELD-ON KICKSTAND BY KUSTOM TECH

This kickstand uses an internal ball and spring for a perfect custom look. Made by Kustom Tech from billet steel with a perfect chrome finish. Comes with a plain steel weld-on bracket to allow you to put it just where you want to have it.

741128 Weld-on kickstand



CHROME MIRAGE-STYLE KICKSTAND

A perfect combination of form and function. Can be both start and finish for your custom job. Major components are made from investment-cast chrome-moly and all metal components have a flawless chrome finish. Complete kits include a chrome spring and integral rubber stopper to protect the primary cover. The kickstand mount features chrome socket head screws fitting into counter bored mounting holes for a clean appearance. Available as a complete kit or as a direct replacement kickstand only.

Complete kit with side stand, mount and hardware

055033 Fits 4 Speed Big Twin models 1936 thru 1986 as well as FXST, FXSTC, FXSTS and Bad Boy models from 1984 to present

Kickstand only

055031 Fits all FXST, FXSTC, FXSTS and Bad Boy models 1989 to present, all Heritage Softail and Fat Boy models from late 1986 to present and 5 Speed FLT and FLHT models 1980 to present

Mount only

055032 Kickstand mount with hardware



RUBBER SHOCK BUSHINGS

233418 Rubber bushings for the shock mounting studs used from 1958 thru 1972 (OEM 85210-42A) (bag of 10 sets).



CHROME CENTER STAND FOR 1999 THRU 2008 TOURING MODELS

This center stand features a heavy duty black coated steel frame with chrome feet. It attaches directly to the frame without compromising the lean angle of the bike. With this center stand you lift the bike upright to reduce space required for parking. Height adjustment of the chromed feet allows either lifting the rear tire of the ground for easy cleaning and service, or keeping the wheel on the ground for reduced lifting effort. Fits all 1999 thru 2008 Touring models with or without passenger floorboards. Kit comes complete with all required mounting hardware.

055112 Chrome center stand



SOFTAIL SHOCK MOUNTING KIT

Special kit for Softail rear shocks contains 4 shoulder bolts (OEM 4074) & washers (OEM 6724). Available in zinc or chrome plated. Fits all Softails 1984 to present, 2000 to present models only use 2 bolts.

710606 Zinc, USA made

710607 Chrome, USA made

345332 Chrome, imp. version



DOUBLE THREADED SHOCK STUD KITS FOR 1982 TO PRESENT MODELS

Special double threaded shock stud kit for 1982 to present H-D models. Each kit includes 2 studs, 2 chrome washers, 2 lock nuts and 2 chrome nuggets.

233427 LOWER Fits 1982 thru 1987 Sportster models (OEM 4082 & 4081)

233428 LOWER Fits 1982 thru 1988 FXR models (OEM 1614)



SHOCK STUD KIT FOR 4 SPEED BIG TWINS

233431 Contains two complete lower shock stud kits with nuts and a pair of chrome nugget nuts for the stock upper shock studs. Permits replacement of your lower shock studs and upgrade the upper studs, giving your mounted shocks a uniform custom look. Fits all 4 Speed Big Twin models from 1973 thru 1986.



CHROME SHOCK COVERS FOR HARLEY-DAVIDSON

243025 The look of the 50's! These covers will fit all models swingarm Harley's with stock shocks. Sportster 1952 thru 1978. Superglide 1971 to 1982, Electra Glide 1958 thru 1982. Stock replacement for: XL and K 1952 to 1964 FL 1958 thru 1964. Sold in pairs (OEM 54707-84T).



REAR SHOCK STUDS

Lower and upper shock stud kits for Big Twin models 1958 thru 1986 and Sportster models 1956 thru 1974. Each kit includes one zinc or chrome plated stud and two chrome plated cup washers.

Fits Big Twin models

- 233424** Upper 1958-1966 zinc plated (OEM 54515-58A)
234746 Upper 1958-1966 chrome plated (OEM 54515-58A)
233425 Lower 1958-1966 zinc plated (OEM 54517-58)
234747 Lower 1958-1966 chrome plated (OEM 54517-58)
233419 Upper 1967-1972 zinc plated (OEM 54515-67)
234741 Upper 1967-1972 chrome plated (OEM 54515-67)
233420 Lower 1967-1972 zinc plated (OEM 54517-67)
234742 Lower 1967-1972 chrome plated (OEM 54517-67)
233421 Upper 1973-1986 zinc plated (OEM 54515-73)
234743 Upper 1973-1986 chrome plated (OEM 54515-73)

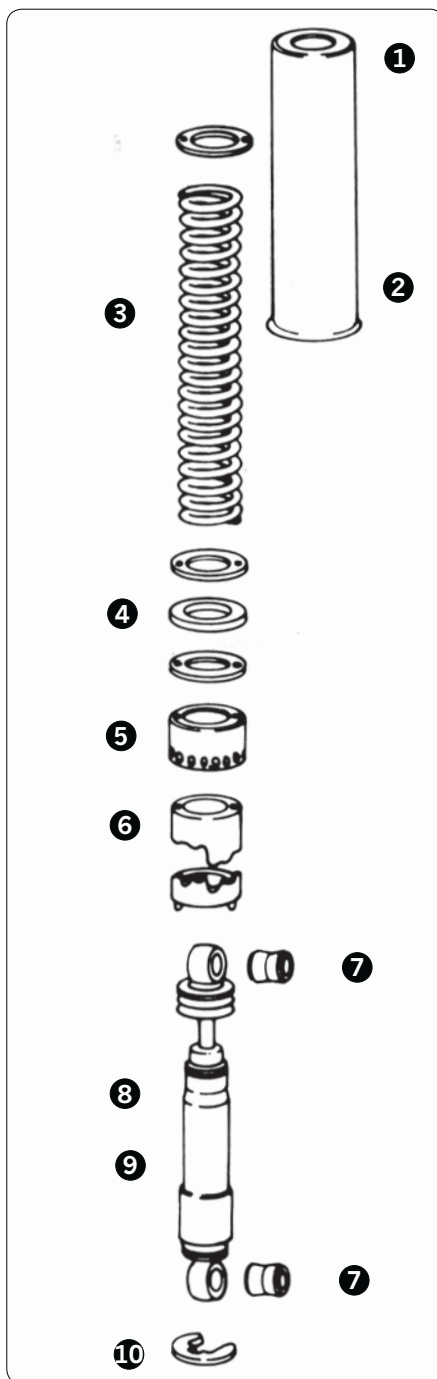
Fits Sportster models

- 233422** Upper 1956-1974 zinc plated (OEM 54515-56B)
234744 Upper 1956-1974 chrome plated (OEM 54515-56B)
233423 Lower 1956-1974 zinc plated (OEM 54516-72)
234745 Lower 1956-1974 chrome plated (OEM 54516-72)

Shock stud lock nut (not shown)

- 233417** Mounts most shock studs to frame nut, has 5/8" x 18 thread (OEM7993)

Note: Chrome stud kits also include a set of rubber shock bushings.



SHOCK ABSORBER PARTS FOR 4 SPEED BIG TWIN 1958 THRU EARLY 1986

Zodiac offers a complete line of component parts for all 4 Speed Big Twins 1958 thru early 1986. These components allow you to rebuild your shock instead of replacing them. All components are an exact duplicate of the OEM part with the exception of ZPN 243063, the shock adjusting cam set, which is a Zodiac exclusive. These cams offer a 360 adjustment and cannot be misaligned like the OEM parts.

1. Chrome 13.5" Long Cover Fl

243031 Fits 1967 thru 1972 (OEM 54702-67)

2. Chrome 12" Long Cover Fl

243003 Fits 1973 thru 1986 (OEM 54702-73)

3. Chrome Spring 13.5"

243052 Fits 1967 thru 1972 (OEM 54555-71)

4. Rubber Dust Washer

243056 Fits 1958 thru 1986 (OEM 54590-56) (5 pack)

5. Chrome Adjustment Sleeve

243070 Fits 1973 thru 1986 (OEM 54559-73)

6. Shock Adjust Cam Set

243063 Fits 1967 thru 1986 (OEM 54530-67)

7. Rubber Bushing Shock Eye

233418 Fits 1958 thru 1986 (OEM 85210-42A) (bag of 10 sets)

8. Damper Unit 13.5"

243058 Chrome finish, fits 1967 thru 1972 (OEM 54536-67)

9. Damper Unit 12"

243066 Chrome finish, fits 1973 thru 1986 (OEM 54546-73)

10. Cam Support Clip

243061 Fits 1973 thru 1986 (5 pack) (OEM 54538-73)



LOWER SHOCK STUD KIT FL & FX

These special double threaded lower stud kits fit FL 1973 to present and all 4 Speed FX models thru 1986. Zinc plated finish (OEM 3958).

233426 Stud kit (as shown)



CHROME SHOCK STUD COVERS

Sold in sets.

243027 Fits Sportster models from 1975 thru 1978 (OEM 54704-75)

243026 Fits FL and FX models from 1970 thru 1984 and Sportster models from 1965 thru 1974 (OEM 54704-65)



"BIG TWIN LOOK" LOWER SHOCK COVERS FOR HARLEY FXR

301040 Show-chromed, die-cast covers fit 1982 and later Showa shocks on all FXR. Easily mounts in minutes, without dismantling the shock, with set of screws. Set screws allow quick removal for shock adjustment and assure secure mounting. Sold in pairs.

SHOCK ABSORBERS FOR HARLEY-DAVIDSON

Beautiful chrome plated shocks for both early (58-72) and late (73-86) 4 Speed swingarm models. Each shock absorber is complete with chromed springs, cams and long or short cover. The best replacement units available. 12 inch shocks also fit 1958 to 1972 Sportster models. Sold each.



243000 12" Shock with short cover, 1973 thru 1986 (OEM 54509-73A). Sold each.



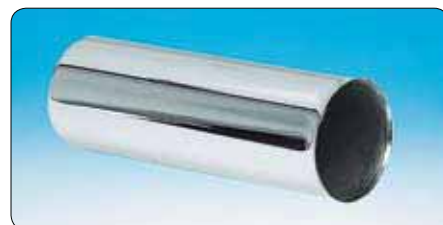
243002 12" Shock with long cover, 1973 thru 1986 (OEM 54500-73). Sold each.



243030 13.5" Shock with short cover. Fits 1958 thru 1972 (OEM 54509-71). Sold each.



243040 13.5" Shock with long cover. Fits 1958 thru 1972 (OEM 54500-67). Sold each.



LONG SHOCK COVER FOR 12" SHOCK

243003 Fits FX and FLH models 1973 thru 1986 (OEM 54702-73). Sold each.



LONG SHOCK COVER FOR 13.5" SHOCK

243031 Fits FX and FLH models 1967 thru 1972 (OEM 54702-67). Sold each.



REPLACEMENT SHOCKS FOR SOFTAIL

High quality replacement shocks for 1987 thru 1999 and 2000 to present Softail models. Sold in sets and come complete with adjusting wrench. Available in chrome for 1989 thru 1999 Softail, and black as well as chrome plated for 2000 to present Softail.

243067 Fits 1989 thru 1999 Softail, Chrome

243071 Fits 2000 to present Softail, Chrome

243073 Fits 2000 to present Softail, Black



"ZUSPENSION PRO" SHOCK ABSORBERS

Zuspension Pro shock absorbers are not just replacement shock absorbers. The quality in design and materials used, make the Zuspension Pro shock absorbers the choice for those that are looking for improved road holding thus more riding pleasure. Zuspension Pro shocks are exclusively available from Zodiac. These hydraulic shocks have a black painted finish and come in pairs, complete with chrome springs and short style spring covers installed.

Zuspension Pro shock absorbers for Sportster & FXR models

- **12 1/2"** is stock length on all 1977 thru 1978 XLCR models, all 1979 thru 1987 Sportster models including XR 1000, 1988 thru 2001 Sportster Hugger, 1984 thru 1986 FXR models (except Sport Edition, FXRD and FXRT). These models can also be used with up to 1 1/2" shorter shocks.
- **13 1/2"** is stock length on 1987 thru 1994 FXRS Convertible and Sport Edition, as well as 1988 thru 2003 Sportsters models (except Hugger), these models can also be used with 3/4" longer shocks.
- **14 1/4"** is stock length on all Sportster (except XLCR) and K models from 1952 thru 1978. These models do not accept shorter shocks.

- 243085** 11" (28 cm) eye to eye
- 243086** 11 1/2" (29.2 cm) eye to eye
- 243087** 12" (30.5 cm) eye to eye
- 243088** 12 1/2" (31.75) eye to eye
- 243089** 13" (33.0 cm) eye to eye
- 243091** 13 1/2" (34.25 cm) eye to eye
- 243092** 14 1/4" (36.3 cm) eye to eye

Zuspension Pro shock absorbers for 1973 thru 1986 Big Twin models

- 12" is stock length on 1973 thru 1986 FX and FL models. These models can also be used with 1" shorter shocks.

- 243083** 11" (28 cm) eye to eye **NEW**
- 243084** 12" (30.5 cm) eye to eye **NEW**



HYPERPRO COMPRESSION TYPE SHOCK ABSORBER WITH LINK SYSTEM FOR BUELL MODELS

This unique design Hyperpro compression spring type shock absorber with link system replaces the rear, odd, stock shock with its pull-type spring with a more common and compact size shock absorber with compression type spring, providing better handling and road holding characteristics. Hyperpro's engineers decided to make this complete change because of several reasons. First of all, the Buell is a quite exclusive sports bike, and the limited quantity would never make the development of a replacement type shock, working the same -odd- way as the stock shock, pay. Secondly, the know-how on compression type shocks at Hyperpro is second to none. Thus, this solution makes that you can take advantage of Hyperpro's long years of experience. The Hyperpro shock is fully adjustable and comes with a Hyperpro-purple spring, the link system is made out of billet aluminum and comes with all required hardware and easy-to-follow installation instructions. The shock and link system fit all Buell models 1994 to present.

700892 Hyperpro Buell shock





LEGEND AIR SUSPENSION KITS FOR SOFTAIL MODEL

This 100% air bag suspension system with built in dampening offers an unequalled ride quality for one or two up riding. The on-board air compressor with 150 PSI capacity allows you to lower the bike 3 inches from stock height in seconds. With the compressor you can adjust the shocks to the rider while eliminating bottoming out. Shocks are machined from 6061-T6 aluminum and available in chrome and black hard coat anodized finish. Available for all Softail models 1989 to present.

Fits 1989 thru 1999 Softail models

722150 Black anodized finish

722151 Chrome finish

Fits 2000 to present Softail models

722152 Black anodized finish

722153 Chrome finish



LEGEND AIR SUSPENSION

Legend Air Suspension provides the best ride quality available today with fade free dampening and no bottoming under any load condition. Adding the unique feature of raising ride height for comfort and clearance, or lowering for reduced seat height and low cool look results in the ultimate suspension system. These shocks come with an on-board compressor and solenoid valve with easy "on the go" single switch operation in seconds. Shocks feature Gates Kevlar Air Spring Technology (patent pending). Legend Air Suspension shocks are CNC machined from 2011-T6 and 6061-T6 Billet Aluminum with a chrome or black finish. Shocks are adjustable from stock length to fully compressed 3 1/4" under stock. These complete and ready to install suspension kits include an air compressor, mount and hardware. Straightforward installation in the stock location. Available for 2006 to present Sportster, 2002 to present V-Rod, 1991 to present Dyna, and all 1985 to present FLT, FLHT, FLHR and FLTR models.

722565 Fits 2006 to present Sportster models, **NEW** chrome

722564 Fits 2006 to present Sportster models, **NEW** black

722165 Fits 2002 to present V-Rod, chrome

722536 Fits 2002 to present V-Rod, black **NEW**

722146 Fits 1985 thru 1998 FLT, FLHT, FLHR and FLTR Evolution models

722147 Fits 1999 to present FLT, FLHT, FLHR and FLTR Twin-Cam models

722166 Fits 1991 thru 1998 Evolution Dyna models

722167 Fits 1999 to present Twin-Cam Dyna models





FLUSH MOUNT LEGEND AIR SUSPENSION FOR SOFTAILS

Design version of the famous Legend Air Suspension for Softails. These shocks are smooth looking and are flush mounted with the bottom of the frame. The installation is easy using the stock location on stock Harley and most aftermarket frames. Just flipping the switch makes it possible to adjust the travel height by 3 inches and so creating the ultimate comfort under any rider weight or road condition. These suspension kits include a pair of Legend Air shocks, electric air compressor with electronic solenoid, pressure gauge, rocker box gauge mount and all required hardware. Available for Softail models 1989 to present in your choice of chrome plated or black anodized finish.

Fits 1986 thru 1999 Softail

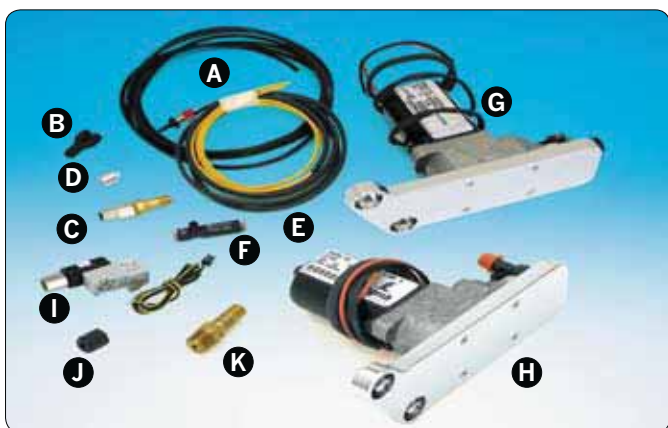
722534 Black

722535 Chrome

Fits 2000 to present Softail

722532 Black

722533 Chrome



LEGEND AIR SUSPENSION REPLACEMENT PARTS

Service and replacement parts for Legend air suspension.

A. 722148 Air hose

B. 722154 Y-fitting

C. 722155 Pressure release valve

D. 722156 Chrome release button

E. 722157 Electric switch

F. 722158 One-way check valve

G. 722159 Air compressor, early style

H. 722168 Air compressor, late style

I. 722169 Solenoid for late style compressor

J. 722177 Cap and O-ring

K. 722349 Straight fitting



NEW



NEW

SIMPLIFIED AIR SUSPENSION

Adjustable air suspension for Softail models has never been as simple as this, as these are fully self-containing units. The Simplified Air Suspension has a built-in compressor but no hoses and no air line fittings. Installation is as easy as just 1 remote air breather to route, 4 bolts to secure and 4 switch wires to connect and that's all. Now you can adjust ride height from 0 to over 2" by just a push of the button. The ultimate solution for either Custom Bike builders looking for clean looks and riders looking for comfort, style and a good handling motorcycle. The Simplified Air Suspension has a black and clear anodized finish and is available for both 1984 thru 1999 and 2000 to present Softails. The "Xtra Length" Simplified Air Suspension versions have an added 5/8" length to the cylinder housing - giving you about 2" more travel at the swing arm for a total of approximately 6". Ideal for custom bikes that are extra low and need the extra lift to raise the bike to a rideable height. This unit has more travel than a stock Harley-Davidson frame, therefore use of this unit on stock frames is unnecessary. Matching momentary push button switches with a billet aluminum housing that can be bolted on your handlebars are available separately. Switches are sold each, 2 needed to control the Simplified Air Suspension.

734400 Fits Softail models 1984 thru 1999 and most custom frames

734401 Fits Softail models 2000 to present

734403 Xtra Length version for Softail type 1984 thru 1999 custom frames

734404 Xtra Length version for Softail type 2000 to present custom frames

Accessories

734402 Handlebar mounted momentary push button switch, sold each.



PAN-CRUISE OLEOPNEUMATIC SHOCKS FOR SOFTAIL MODELS

Pan-Cruise shocks are specially designed for the use on Harley-Davidson Softail models using the latest and most advanced aeronautical technologies. These superb quality shocks will not only improve the suspension characteristics but also offer outstanding control over your Softail at high speed, together with greater riding comfort. Pan-Cruise shocks are fully adjustable in both ride height and pre-load, simply by changing the air pressure in front and rear section of the units. Replacement high-pressure air valves are separately available.

Other features are:

- Adjustable height from stock position to as much as 2" (50 mm) below stock
- Pre-load can be set from riding solo to full load of two persons plus luggage
- Units come complete with installation instructions and are pre-set for average use
- Full year, unlimited mileage factory warranty . 1984 thru 1999 models are available in clear or black anodized finish
- 2000 to present models come in a clear anodized finish

Fits 1984 thru 1999 Softail models including most aftermarket frames

232467 Black anodized

Fits 2000 thru 2006 Softail models, except 2006 FXST, FXSTS and FXSTB models with stock 200 series rear tire

232192 Black anodized

232253 Replacement air valve



PAN CRUISE KOMPRESSOR ADJUSTABLE REAR SUSPENSION

Pan Cruise shock absorbers were most likely the first ride-height adjustable air suspension available for Softails. The latest innovation on these is the "Pan Cruise Kompressor Air System". This purpose-built suspension system allows you to lower your bike from stock height to 4" (10 cm) lower and back to stock or anything in between with just a flick of the switch. Apart from ride height Pan Cruise shocks also feature adjustable pre-load that can be adjusted with a manual air pump. The air compressor and up/down control switch come fitted on a billet aluminum panel that is ready to install on your bike. Kits include a pair of large diameter "Fat" Pan Cruise shocks, the Pan Cruise Kompressor, ride height control switch, air lines and all other required mounting hardware. The kit is easy to install, easy to use and provides excellent comfort. Pan Cruise shock absorbers are made in Europe using the latest and most advanced aeronautical technologies and feature a one year unlimited mileage warranty.

Pan Cruise Kompressor adjustable rear suspension

744240 Fits all 1984 thru 1999 Softail models and most Softail-style custom frames

744241 Fits all 2000 to present Softail models





FOURNALES OLEOPNEUMATIC SHOCK ABSORBERS

These superb quality shock absorbers are specifically designed for use on Harley-Davidson. They feature two individual hydraulic damping systems, one for compression and one for rebound, as well as easy to adjust air assist system. The air valves are mounted under the top covers to keep them out-of-sight and protect from dirt. The air assists system allows you to adjust your shocks to your needs, for example when you take a pillion passenger or loads of luggage. Fournales Oleopneumatic shocks are made from aircraft quality aluminum with a clear and black anodized finish.

Fits Sportster and FXR models 1979 to present

744220 11" Length, 50 mm travel

744221 12" Length, 65 mm travel

744222 13 1/2" Length, 85 mm travel

Fits 1958 thru 1972 FX and FL models

744223 13 1/2" Length, 70 mm travel

Fits 1973 thru 1985 FX and FL models

744224 11" Length, 35 mm travel

744225 12" Length, 48 mm travel

Fits 1991 to present Dyna models

744226 11" Length, 24 mm travel

744227 12" Length, 49 mm travel

744228 13 1/2" Length, 70 mm travel

Fits 1980 to present FLH & FLT series models

744229 12" Length, 60 mm travel

744230 12 1/2" Length, 60 mm travel

744231 13" Length, 70 mm travel

Fits 2002 to present V-Rod models

744232 12" Length, 60 mm travel

744233 13" Length, 80 mm travel

744234 13 1/2" Length, 80 mm travel



FOURNALES RIDE-ON-AIR "CLASSIC" SHOCKS

Fournales shocks are totally unique compared to all other shocks currently available. They utilize air pressure, internal volume, and speed sensitive damping to adjust easily for all riders. If a passenger or extra luggage is added a simple increase in air pressure will correct the suspension for the added load. The shocks offer very smooth and comfortable ride and are extremely resistant to bottoming. The external appearance of these shocks offer an ultra clean look with its full chrome covers and smooth finish. Top and bottom yokes are black anodized.

Fits all 5 Speed FXR models from 1981 to present and Sportster models from 1979 to present

237364 11 1/2" length (29.2 cm)

237362 12 1/2" length (31.7 cm) (stock Sportster)

237360 13 1/2" length (34.3 cm) (stock FXR)

Fits all FX and FL models from 1973 thru 1986

237368 11" length (28 cm)

237366 12" length (30.5 cm) (stock)

Fits all Dyna Glide models from 1991 to present

237373 11" length (28 cm)

237371 12" length (30.5 cm) (stock)



FOURNALES RIDE-ON-AIR "MAGNUM" SHOCKS

The Fournales Magnum shocks have the same unique features as the Classic shocks. They utilize air pressure, internal volume, and speed sensitive damping to adjust easily for all riders. If a passenger or extra luggage is added a simple increase in air pressure will correct the suspension for the added load. The shocks offer very smooth and comfortable ride and are extremely resistant to bottoming. The Magnum shocks have machined grooves into the lower shock body. Available for most Sportster and Big Twin models, as well as for the VRSCA V-Rod.

Fits 2002 to present V-Rod

237451 13" length (33.0 cm)

Fits all 5 Speed FXR models from 1981 to present and Sportster models from 1979 to present

237365 11 1/2" length (29.2 cm)

237363 12 1/2" length (31.7 cm) (stock Sportster)

237361 13 1/2" length (34.3 cm) (stock FXR)

Fits all FX and FL models from 1973 thru 1986

237369 11" length (28 cm)

237367 12" length (30.5 cm) (stock)

Fits all Dyna Glide models from 1991 to present

237374 11" length (28 cm)

237372 12" length (30.5 cm) (stock)

Fits all FLT(C) and FLHS/T/C models from 1980 to present

237376 12" length (30.5 cm)

237375 13" length (33 cm) (stock)



"AIRTAIL" ADJUSTABLE AIR SUPPORTED SUSPENSION FOR SOFTAIL MODELS BY PROGRESSIVE SUSPENSION

Progressive's new "Airtail" air supported suspension for Softails models is here! This shock combo has Progressive's conventional steel spring in one shock and a unique double air chamber in the other. The double air chamber allows you to pump in the correct air pressure to compensate for the rider's weight, the rider and passenger weight, etc. But also when the rider wants to lower his Softail, air can be added to the other chamber to get the desired height. The biggest advantage in this setup is that, even in the lowered position, the load carrying air chamber retains its pressure allowing bottoming resistance. Airtail shocks come complete with manual fill valve ready to install. There is an optional compressor kit available which consists of: Air pump, electric switches, connectors, all air lines and replacement coil cover bracket that houses the metering gauge and control switches. This allows you to Lower or Rise the bike with the turn of the switch, even when you're riding. Airtail shocks are available for all Softail models 1989 to present.

741166 Airtail shocks for Softail 1989 thru 1999

741168 Optional compressor kit Softail 1989 thru 1999

741167 Airtail shocks for Softail 2000 to present

741169 Optional compressor kit Softail 2000 thru 2006

742010 Optional compressor kit Softail 2007 to present

NEW

17



232253



PROGRESSIVE SUSPENSION AIR TAIL AIR SHOCKS FOR FLH/FLT AND DYNA

Using the same design concept as Progressive Suspensions AirTail system for Softails, the AirTail I.A.S. incorporates a coil spring system with a dual chambered air shock giving the rider total and independent control of ride firmness and ride height. Designed to improve handling performance and to give the rider more control at any ride height, the AirTail I.A.S. uses the Inertia Active System damping technology just like our top of the line 440 Series shocks. The Inertia Active System with Inertia Valve technology separates wheel movement from chassis movement. With the ride height adjustable air and coil shock system, progressive once again combines outstanding performance and great looks with the AirTail I.A.S.

- Integrated air shock and coil shock design means suspension loads are evenly distributed across both shocks of the system
 - Independent ride firmness and ride height adjustments mean improved bump absorption at any ride height
 - Inertia Active System with Inertia Valve technology separates wheel movement from chassis movement
- Available for all 1980 to present FLH and FLT series and all 1991 to present Dyna Glide models. AirTail shocks and compressor kit must be ordered separately.

Fits all 1980 to present FLH/FLT series models

741680 AirTail shocks

741681 AirTail compressor kit

Fits all 1991 to present Dyna Glide models

741682 AirTail shocks

741683 AirTail compressor kit



HANDLEBAR CONTROLS FOR AIR TAIL SHOCKS

These Electronic Control Centers features LED pressure indicators and dual mode operation for easy load and ride height adjustments. The diaphragm button design makes finger tip adjustments a breeze. Available in Throttle Side Mount and Handle Bar Clamp mount. This Electronic Control Center is designed specifically for use with Progressive Suspension AirTail systems only.

741684 Throttle side mount

741685 Handlebar clamp mount



ADJUSTABLE RIDE-A-HEIGHT SOFTAIL SHOCKS

These Progressive Suspension shocks allow you to lower your Softail up to 2. and back to stock in a glance. Comfort, style and adjustability united in a top quality product. Sold in pairs.

Fits Softail models 1989 thru 1999

741686 Chrome plated finish

Fits Softail models 2000 up

741689 Chrome plated finish



AMERICAN TUNED GAS SHOCKS FOR SOFTAIL MODELS BY PROGRESSIVE SUSPENSION

High-performance gas shocks for all Softail models. They feature improved compression and rebound damping characteristics and stiffer springs for a smoother, more controlled ride and less bottoming-out. As in the Original Equipment design of the late model shocks, the spring pre-load is adjustable. Available as standard replacements or in a shorter version which will lower the rear of your bike approx. 1". Both versions are available in a chrome finish or gold colored zinc plated for corrosion resistance.

Fits 1984 thru 1988 models

- 234819** Stock length, gold colored zinc plated
- 235083** Stock length, chrome plated
- 235085** 1" lower, gold colored zinc plated
- 235087** 1" lower, chrome plated

Fits 1989 thru 1999 models

- 234820** Stock length, gold colored zinc plated
- 235084** Stock length, chrome plated
- 235086** 1" lower, gold colored zinc plated
- 235088** 1" lower, chrome plated



KENDON'S SOFTSPENSION KITS

You like your Softail, but know the ride is exceedingly uncomfortable. You like taking long motorcycle rides, but the comfort of the stock suspension limits the mileage you can cover in a day. You think the Original Equipment suspension on your Softail is too stiff and unforgiving. If you have to answer yes to any of these questions, Zodiac offers you the ultimate solution in Softail suspension, the Kendon Softspension kits. Torsion suspension is very compact, progressive and extremely effective. The Kendon Softspension kit is merely bolted in, giving smooth, modern comfort for any Softail model. The kit includes a shock absorber for even smoother operation.

Softspension Kits

- | | |
|---------------|---------------|
| Black | Chrome |
| 234932 | 234935 |



PROGRESSIVE SUSPENSION SHOCK SPRINGS

These are optional spring sets for our line of Progressive Suspension "American Tuned" shock absorbers. They are available in chrome or black powder-coated finish and fit the 11.5" and 13.5" shocks. The "American Tuned" shocks come stock with 75/130 lbs. rate springs, all optional springs have heavier rating and are sold in sets.

For 11.5" shock absorbers

- 234829** Chrome 115/155 lbs. rate springs

For 13" shock absorbers

- 234831** Chrome 95/140 lbs. rate springs
- 234830** Black 95/140 lbs. rate springs
- 234938** Chrome 105/150 lbs. rate springs
- 234939** Black 105/150 lbs. rate springs



SPRINGER DAMPER BY PROGRESSIVE SUSPENSION

Velocity sensitive damping provides superior damping performance. Damper has attractive chrome finish and comes with dual wall construction for extra durability. Fits FLSTS and FXSTS Springer models.

- 731339** Springer Damper

418-SERIES ALUMINUM BODY SHOCKS BY PROGRESSIVE SUSPENSION

These stylish aluminum body shocks feature a five position, externally adjustable damping range selector and a four position, easily adjusted spring pre-load cam. This way both the damping and spring pre-load can be adjusted for different loads and ride characteristics. The body is machined from aircraft quality aluminum and clear anodized for an attractive, durable finish. Shocks are gas charged for fade free operation and feature a double wall construction (steel inner wall) for excellent durability. Available with either black or chromed progressively wound springs. Your model motorcycle is given together with the stock shocks length, feel free to take longer or shorter shocks from the same application group, but note that shorter than stock shocks will lower the rear of the motorcycle. Fender to tire clearance should be checked after installation. Shocks are sold in pairs



Chrome

Black



Progressive Suspension 418 series shocks	Springs:	Chrome	Black
	Length		
Sportster models 1977 thru 2003			
XL 1988 thru 2003 (except Hugger), XL Standard 1994 thru 2003	13 1/2" (343 mm)	238836	238837
XL 1979 thru 1987, XLCR 1977 thru 1978, XL Hugger models 1988 thru 1991, XR1000 1983 thru 1984	12 1/2" (318 mm)	238834	N/A
XL Hugger 1992 thru 2003, XLC 1992 thru 2003, XLH 1200 1992 thru 2003	11 1/2" (292 mm)	238832	238833
Sportster models 2004 to present			
XL 883 R, XL1200 R 2004 to present	13" (330 mm)	744757	N/A
All XL models 2004 to present except R models, 2007-up XL 1200 and 2007-up XL 883 L	11 1/2" (292 mm)	744758	744759
Big Twin 4-speed models			
FL, FLH, FX and FXWG 1973 thru 1986	12" (305 mm)	235365	235364
Touring Models			
FLH and FLT series models 1980 to present	13" (330 mm)	744760	744761
	11 1/2" (292 mm)	238832	238833
Dyna models			
FXDS 1994 thru 2000 and FXDX 1999, FXDX/T 2000 thru 2005,	13" (330 mm)	N/A	N/A
FXD/C 1995 to present, FXDL 1993 thru 2000 and FXDWG 1993 to present	12 1/2" (318 mm)	238840	N/A
FXD/B/C Dyna models 1991 and 1992, FXDL 2001 thru 2005, FXDB/F/L 2006 to present	12" (305 mm)	744762	744763
	11 1/2" (292 mm)	238838	238839
FXR models			
FXR-SP/Conv. 1987 thru 1994	13 1/2" (343 mm)	238836	238837
FXLR 1987 thru 1994, FXR/FXRS 1987 thru 1994, FXRT 1983 thru 1992	13" (330 mm)	744764	N/A
FXR/FXRS 1982 thru 1986	12 1/2" (318 mm)	238834	N/A
	11 1/2" (292 mm)	238832	238833
V-Rod Models			
VRSC V-Rod models 2002 to present (1/2" under stock)	12 1/2" (318 mm)	744116	N/A

"AMERICAN TUNED" GAS SHOCKS BY PROGRESSIVE SUSPENSION

Progressive Suspension shocks are real quality and feature chrome or black powder coat finish, double wall construction, 6-stage damping, heat-treated hard-chrome rods, long-life seals and fade resistant oil. Shocks come with a one year warranty on the shocks and a lifetime warranty on the springs. Sold in pairs. Available in various designs with the same technical details. Shocks with Regular springs will accommodate most riders needs. For some models we also have shocks with Heavy-Duty springs available. Springs for those who want to upgrade from Regular to Heavy-Duty are listed elsewhere in this chapter. Your model motorcycle is given together with the stock shocks length, feel free to take longer or shorter shocks from the same application group, but note that shorter than stock shocks will lower the rear of the motorcycle. Fender to tire clearance should be checked after installation.



		Shocks	412	412	412	812	812	812
		Body	Black	Black	Chrome	Chrome	Chrome	Chrome
		Springs	Chrome	Black	-	Chrome	Chrome	Chrome
		Covers	Chrome	Black	Full	Flame	Baloney Cut	Double Cut
	Length	Springs						
Sportster models 1952 thru 2003								
K and XL 1952 thru 1978	14 1/4" (362 mm)	Regular	234809	234808	N/A	N/A	N/A	N/A
XL 1988 thru 2003 (except Hugger), XL Standard 1994 thru 2003	13 1/2" (343 mm)	Regular	234806	234807	N/A	N/A	N/A	N/A
	13" (330 mm)	Regular	234804	234805	N/A	N/A	N/A	N/A
XL 1979 thru 1987, XLCR 1977 thru 1978, XL Hugger models 1988 thru 1991, XR1000 1983 thru 1984	12 1/2" (318 mm)	Regular	234800	234801	N/A	744720	744704	744705
	12" (305 mm)	Regular	234962	234957	N/A	N/A	N/A	N/A
	12" (305 mm)	Heavy-Duty	235182	N/A	N/A	744726	744716	744717
XL Hugger 1992 thru 2003, XLC 1992 thru 2003, XLH 1200 1992 thru 2003	11 1/2" (292 mm)	Regular	234802	234803	N/A	744719	744702	744703
	11 1/2" (292 mm)	Heavy-Duty	N/A	N/A	N/A	744721	744706	744707
	11" (279 mm)	Regular	234846	234845	N/A	744718	744700	744701
Sportster models 2004 to present								
XL 883 R, XL1200 R 2004 to present	13" (330 mm)	Regular	744734	744739	N/A	N/A	N/A	N/A
	12 1/2" (318 mm)	Regular	744735	744740	N/A	744744	744747	744750
	12" (305 mm)	Regular	744736	744741	N/A	N/A	N/A	N/A

		Shocks	412	412	412	812	812	812
		Body	Black	Black	Chrome	Chrome	Chrome	Chrome
		Springs	Chrome	Black	-	Chrome	Chrome	Chrome
		Covers	Chrome	Black	Full	Flame	Baloney Cut	Double Cut
	Length	Springs						
All XL models 2004 to present except R models, 2007-up XL 1200 and 2007-up XL 883 L	11 1/2" (292 mm)	Regular	744737	744742	N/A	744745	744748	744751
XL 1200N 2007 to present, XL 883L 2007 to present	11" (279 mm)	Regular	744738	744743	N/A	744746	744749	744752
4 speed Big Twins 1958 thru 1986								
FL and FX 1958 thru 1972	13 1/2" (343 mm)	Regular	N/A	N/A	234817	N/A	N/A	N/A
FX, FXWG, FL and FLH 1973 thru 1986	12" (305 mm)	Regular	234810	N/A	234818	744722	744708	744709
	11" (279 mm)	Regular	234811	N/A	N/A	744723	744710	744711
Touring Family								
All FLH and FLT series models 1980 to present	13" (330 mm)	Regular	744755	744756	N/A	N/A	N/A	N/A
	12" (305 mm)	Regular	234962	234957	N/A	N/A	N/A	N/A
	12" (305 mm)	Heavy-Duty	235182	N/A	N/A	744726	744716	744717
	11 1/2" (292 mm)	Regular	234802	234803	N/A	744719	744702	744703
	11 1/2" (292 mm)	Heavy-Duty	N/A	N/A	N/A	744721	744706	744707
Dyna models								
FXDS 1994 thru 2000, FXDX 1999, FXDX & FXDT 2000 thru 2005	13" (330 mm)	Regular	N/A	N/A	N/A	N/A	N/A	N/A
FXD & FXDC 1995 to present, FXDL 1993 thru 2000, FXDWG 1993 to present	12 1/2" (318 mm)	Regular	744753	744754	N/A	N/A	N/A	N/A
FXD, FXDB and FXDC 1991 and 1992, FXDL 2001 thru 2005, FXDB, FXDF & FXDL 2006 to present	12" (305 mm)	Regular	234812	N/A	235005	N/A	N/A	N/A
	11 1/2" (292 mm)	Regular	N/A	N/A	N/A	N/A	N/A	N/A
	11" (279 mm)	Regular	237812	N/A	235004	744724	744712	744713
	11" (279 mm)	Heavy-Duty	N/A	N/A	N/A	744725	744714	744715
FXR models								
FXR-SP/Conv. 1987 thru 1994	13 1/2" (343 mm)	Regular	N/A	N/A	N/A	N/A	N/A	N/A
FXLR 1987 thru 1994, FXR/FXRS 1987 thru 1994, FXRT 1983 thru 1992	13" (330 mm)	Regular	234804	234805	N/A	N/A	N/A	N/A
FXR/FXRS 1982 thru 1986	12 1/2" (318 mm)	Regular	234800	234801	N/A	N/A	N/A	N/A
	12" (305 mm)	Regular	234962	234957	N/A	N/A	N/A	N/A
	11 1/2" (292 mm)	Regular	234802	234803	N/A	N/A	N/A	N/A
	11" (279 mm)	Regular	234846	234845	N/A	N/A	N/A	N/A
V-Rod models								
VRSC V-Rod models 2002 to present	13" (330 mm)	Regular	741964	741963	N/A	N/A	N/A	N/A
	13" (330 mm)	Heavy-Duty	744118	744117	N/A	N/A	N/A	N/A
	12 1/2" (318 mm)	Regular	741959	741958	N/A	N/A	N/A	N/A
	12 1/2" (318 mm)	Heavy-Duty	744115	744114	N/A	N/A	N/A	N/A
	12" (305 mm)	Regular	741957	741956	N/A	N/A	N/A	N/A

PROGRESSIVE SUSPENSION 440-SERIES SHOCKS

Every product line has a “best of the best” and the PS 440 Series shocks are just that. Progressive Suspension wraps their proven progressive rate spring around a state of the art damper and top and bottom it off with chromed machined aluminum end caps. A top mount threaded preload adjuster allows for fine-tuning with a simple twist of the cap. The I.A.S. (Inertia Active System) separates wheel movement from chassis movement. Shocks are High Pressure Gas Charged for consistent damping performance and come with a Limited Lifetime warranty. The 440 Series shocks are available in black with black or chrome springs and black or chrome covers, as well as the ideal stock or lowered length for your bike. Your model motorcycle is given together with the stock shocks length, feel free to take longer or shorter shocks from the same application group, but note that shorter than stock shocks will lower the rear of the motorcycle. Fender to tire clearance should be checked after installation.



Progressive Suspension 440-series shocks	Body:	Black	Black	Black	Black
	Springs:	Chrome	Black	Black	Chrome
	Covers:	Chrome	Black	Chrome	Chrome
	Length				
Dyna models					
	13 1/2" (343 mm)	730061	730060	N/A	N/A
FXDS 1994 thru 2000 and FXDX 1999 thru 2005	13" (330 mm)	744122	744119	N/A	N/A
FXD & FXDC 1995 to present, FXDL 1993 thru 2000, FXDWG 1993 to present	12 1/2" (318 mm)	N/A	744120	N/A	N/A
FXD, FXDB & FXDC 1991 thru 1992, FXDL 2001 thru 2005, FXDB, FXDF, FXDL 2006 to present	12" (305 mm)	N/A	744121	N/A	N/A
V-Rod Models					
VRSC V-Rod models 2002 to present	13" (330 mm)	744111	744110	744112	744113
	12 1/2" (318 mm)	742007	742006	742008	742009
	12" (305 mm)	742003	742002	742004	742005



"AMERICAN TUNED" AIR SHOCKS BY PROGRESSIVE SUSPENSION

These shocks are air adjustable, permitting the rider to customize his ride and compensate for heavy loads or just to provide a more comfortable ride. The shocks are joined by a remote filler valve and line kit which provides a convenient single point air adjustment. This feature maintains air pressure balance between the two shocks. Other features include a hard chromed and heat-treated damper cartridge with six stage automatic damping, as well as dual rate springs for added safety. These completely rebuildable shocks come complete with an air connection which rotates 360 degrees for ease of installation. **Note:** The installation of shocks 234815 on 1980 thru 1982 FLT models will lower the rear of the motorcycle. Fender to tire clearance should be checked after installation.

- 234814** Fit all 1979 thru 1987 Sportster models including XR1000, 1988 thru 1991 Hugger, and all FXR models with a chain final drive from 1982 thru 1986 (12.50" Eye-to-eye)
- 234815** Fit 1983-1984 FXRT and 1980 to present FLT, FLHT, FLHS models (13.00" Eye-to-eye)
- 234816** Fit 1988 thru 2003 Sportster models except Hugger (13.50" Eye-to-eye)



FOURNALES DELTA SPRING ADJUSTABLE SHOCK DAMPER FOR LATE STYLE SPRINGER FORKS

Adjustable pressure and improved action. Now you can adjust the damping of your new style Springer front-end to your own specifications. Has smooth chrome finished and will fit all Springer models from 1988 to present.

- 237370** Shock absorber



"AMERICAN TUNED" GAS SHOCKS WITH CHROME COVER

These gas-charged shock absorbers were designed to fit Big Twin models from 1958 thru 1986. A 13.5" long shock is available to fit all 4 Speed Big Twins from 1958 thru 1972, and the 12" long shock will fit all 4 Speed Big Twins with a rear disc brake from 1973 thru 1986. They feature full-length chrome covers and high-performance gas cells with double-wall construction and 6-stage damping. Other quality features include special cam adjusters which permit easy pre-load adjustment, heat-treated hard chrome rods, long-life seals and fade-resistant oil. All shocks include upper and lower bushings and come complete with a one year limited warranty. Sold in pairs.

- 234817** Fit 4 Speed Big Twin models 1958 thru 1972 (13.5" eye-to-eye)
- 234818** Fit 4 Speed Big Twin models 1973 thru 1986 (12.0" eye-to-eye)
- 235005** Fits 1991-up Dyna Glides 12" length (stock)
- 235004** Fits 1991-up Dyna Glide models 11" length (under stock)

Note: When installing shocks that are shorter than the Original Equipment units, the fender to tire clearance must be checked.



HIGH PRESSURE AIR PUMPS FOR AIR SHOCKS AND FORKS

These manual operated pumps are used to adjust the pressure to your needs in any

air-shock or air-fork. The big pump easily pumps up to 850 PSI pressure (60 atm.), the smaller hand pump will pump up to 450 PSI. (32 Atm.). They must be used to correct the pressure in the high pressure shock absorbers such as Fournales and Pan-Cruise shocks.

- 232279** Big pump 850 PSI (60 Atm.)
- 232466** Hand pump 450 PSI (32 Atm.)



FLAME COVERS FOR PROGRESSIVE SUSPENSION 412 SERIES SHOCKS

With these retro kits your existing 412-Series shocks can be transformed into the great looks of the 812-Series. Easy to be installed using a spring load spanner, such as ZPN 235188 and shock spring tool such as ZPN 235125. Each kit contains a pair of billet aluminum end caps and a pair of flamed spring covers. Available for the following applications

- 744727** Kit for shocks ZPN 234810, ZPN 234811, ZPN 234818 ZPN 237812 on 1973 thru 1986 FL/FLH/FX (4-speed), 1980 thru 1986 FXWG (4-speed) and all 91 to present Dyna models only.
- 744728** Kit for shocks ZPN 235182 on 1997 to present FLH/FLT Touring models and 1991 to present Sportster models.
- 744729** Kit for shocks ZPN 234800, ZPN 234801, ZPN 234802 on 1997 to present FLH/FLT Touring and all 1991 to present Sportster models.
- 744730** Kit for shocks ZPN 234845 and ZPN 234846 on 1991 thru 2006 Sportster models



GAUGE-MOUNTED AIR PUMP

Simple to operate and extremely accurate. This air pump produces pressure of up to 200 PSI. Ideal for setting the pressure on air forks and air shocks. Available with or without pressure gauge.

- 235438** 0-30 lb. Gauge (OEM 34633)
- 235459** 0-100 lb. Gauge
- 234828** Pocket pump without gauge



PROGRESSIVE SUSPENSION LED SHOCK COVERS

These shock covers feature bright shining LED's and replace the upper spring covers on all 812-Series Progressive Suspension shocks and selected 412-Series Progressive Suspension shocks. A load equalizer to use the LED's as turn signals is included with all kits and can be easily wired into the existing wiring harness.

- 744732** Fits 812-Series shocks on Dyna models as well as 412-4045 shocks on Dyna models
- 744733** Fits all 812-Series and all 412 shocks, except on Dyna models



LOWERING KIT FOR SPORTSTERS

A simple bolt-on US made kit. Will lower the rear of the machine 1. (2.5 cm) for a great looking custom appearance, or to easy the balance of short riders. Stock or aftermarket shocks can be used, to move the lower mount position back and lower. Notice that the rear wheel travel is reduced 1/2. (1.25 cm) from stock. Installs in less than 30 minutes with no permanent modifications to your machine. Available for 1986 and mid 1989 thru 1999, 2000 thru 2003, 2005 to present Evolution Sportster models. Does not fit 1987 thru early 1989 Sportster models with clevis type lower shock mount.

Fits 1986 and mid 1989 thru 1999 Evolution Sportster models

- 233677** Lowering kit, black
- 233699** Lowering kit, chrome

Fits 2000 thru 2003 Evolution Sportster models

- 232972** Lowering kit, black
- 232976** Lowering kit, chrome

Fits 2005 to present Sportster models except Custom, Low or Anniversary models

- 711744** Black **NEW**
- 711745** Chrome **NEW**



"LOW CRUISER" REAR LOWERING KIT FOR FLH/FLT

Simple bolt-on kit that lowers rear of your machine by moving the shock lower mounts backwards. Lowering on 1985 thru 1996 models is 1 1/2" and 1" on 1997 thru 2003 models. Rear wheel travel is same as stock. Kits can be installed in 30 minutes with no permanent modifications to the machine. Manufactured from steel with black powder coat finish, comes complete with all mounting hardware. Available for most FLH(T)(C)(R)(S) and FLT(C) models 1985 to present.

233884 Fits 1985 thru 1996 models, may require modifications to bag mounts on 1985 thru 1992 models

236675 Fits 1997 thru 2001 models, except 1998 thru 2001 FLHRCI

711621 Fits 2002 thru 2006 models, except FLHRCI

711596 Fits 2007 FLH series models, except FLHX and FLHRS

Note: Do not use with shorter than stock length shocks.



REAR LOWERING KIT FOR DYNA GLIDE MODELS

Simple bolt-on lowering kit which lowers rear of machine 2. (5 cm). Kit will make the motorcycle easier to balance for shorter riders but will also add that Custom Lowrider look. Shock lower mount position is moved back, utilizing stock shocks. Installs within 2 hours with no permanent modifications. Mounting hardware is included. Available in your choice of black or chrome for 1991 thru 1999 models as well as 2000 to present models.

Fits 1991 thru 1999 Dyna models

710490 Rear lowering kit, black
236674 Rear lowering kit, chrome

Fits 2000 thru 2001 Dyna models

236688 Rear lowering kit, black
236689 Rear lowering kit, chrome

Fits 2006 Dyna models except FXDB and FXDL models

711597 Black
711598 Chrome

Fits 2007 Dyna models except FXDB and FXDL models

711740 Black
711741 Chrome

Note: Do not install with shorter than stock length shocks.



"LOW-BOY" REAR LOWERING KITS FOR SOFTAILS

Softail owners can match their lowered front forks with the Low Boy shock lowering kit. This kit increases the length of the stock Softail shocks and lowers the rear of the machine 1". The kits are easily installed in about 1 hour and don't require cutting, grinding or non-reversible modifications.

750803 Softail spring preload tool

233686 Low Boy kit for FXST models 1989 to present.



REAR LOWERING KIT FOR FXR MODELS

USA made simple bolt-on kit, lowers rear of machine 1" for easier balancing for shorter riders and custom appearance. Shock lower mount position is moved back and lower, utilizing stock or most aftermarket shocks. Will fit all FXR models 1986 thru 1994.

233676 Lowering kit, black

236673 Lowering kit, chrome



STAINLESS STEEL ADJUSTABLE TWIN CAM SOFTAIL LOWERING KIT

This trick adjustable ride height kit allows you to adjust the rear of your Softail from stock to 2" lower and back and anything in between. Made from high quality Stainless Steel but still economically priced. Fits 2000 to present FXST and FLST models.

243077 Stainless rear lowering kit Softail 2000 to present



ADJUSTABLE LOWERING KITS FOR TWIN CAM SOFTAIL

236177 Zodiac's adjustable ride height kits for 2000 to present Softails allow you to adjust the rear end of your Softail easily from as-stock to 2" lower and back and anything in between. These economically priced but very high quality kits have a glossy zinc plated finish. Fits 2000 to present FXST and FLST models.



PROGRESSIVE SUSPENSION ADJUSTABLE LOWERING KITS FOR 2000 TO PRESENT SOFTAIL

Progressive Suspension's adjustable lowering kits for 2000 to present Softail models are capable of lowering ride height up to 2" by simply loosening the flange nuts and when the desired height is reached properly tightening the non flanged nuts back against the bushings. Lowered to far? No problem, you can go back from -2" to zero.

236051 Fits 2000 to present FXST and FLST models, chrome



PROGRESSIVE SUSPENSION SOFTAIL SHOCK TOOL

741885 This Softail shock tool can be used to assemble and disassemble all shocks on 1984 to present Softail models.



WHITE BROS "ADJUST-A-RIDE" KIT FOR SOFTAILS

White Brothers, offer a fully adjustable version of the popular Low Boy kit. This kit requires no grinding, cutting or any irreversible modifications and can be installed within an hour. The ride height can be adjusted up-to 2 inch lower or raised over stock by 1/2 an inch, in less than 5 minutes with a 3/4 spanner. Due to the sealed heim joints bearings used, these Adjust-A-Ride need little to no maintenance. Available in standard zincplated and show chrome finish.

233696 Fits 1984 thru 1988 FXST and FLST models, zinc

233687 Fits 1989 thru 1999 FXST and FLST models, zinc

236676 Fits 1989 thru 1999 FXST and FLST models, chrome

236685 Fits 2000 to present FXST and FLST models, zinc

236686 Fits 2000 to present FXST and FLST models, chrome



SOFTAIL SHOCK PRE-LOAD TOOL

A single hand tool used to adjust the spring pre-load of the rear shock absorbers on 1984 to present Softail models. Does not require jacking or lifting of the rear wheel off the ground.

750803 Softail shock pre-load tool (OEM 94455-89)